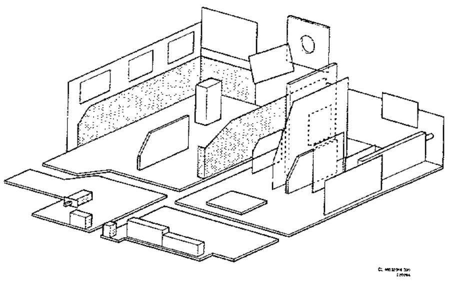
PHILIPS 32PW977A

MODEL

SERVICE MANUAL

Colour television **Chassis**

Service
Service
Service



FL2.24
FL2.26
FL4.27

AA

Service Manual

Contents

			Page	
1.	Technical data		2	
2.	Connection facilities and chassis overview		2	
3.	Warnings and notes		3	
4.	Mechanical instructions		3	
5.	Block diagram		4	
6.	*Electrical diagrams and PWB lay-out*		*Diagram*	*PWB*
	Tuner, source selection	(Diagram C)	7	6
	Synchronisation and deflection (FLx.26/.27)	(Diagram B)	8	17
	Video processing	(Diagram D)	9	6
	Synchronisation and deflection (FLx.24)	(Diagram B)	10	19
	Sound processing	(Diagram F)	11	6
	Power supply (FLx.26/.27)	(Diagram A)	12	17
	Control	(Diagram H)	13	6
	Power supply (FLx.24)	(Diagram A)	14	19
	Picture tube panel	(Diagram E)	15	15
	Sound power amplifier	(Diagram G)	16	17,19
	Y/C detector	(Diagram I)	18	18
	SCAVEM filter (+ picture rotation 16:9)	(Diagram Y)	18	18
	SCAVEM amplifier	(Diagram Z)	18	18
	NICAM decoder	(Diagram K)	20	20
	PiP (Picture in Picture)	(Diagram J)	21	20
	100 Hz Digital Scan (FLx.24/.26)	(Diagram M)	22	23
	Teletext (FLx.24/.26)	(Diagram L)	23	23
	100 Hz/Teletext (FLx.27)	(Diagram L')	24	24
	Comb filter	(Diagram N)	25	25
	Black Stretch	(Diagram D')	26	26
	North / South correction 29" (N/S)	(Diagram B')	26	26
	Interface EURO AV3	(Diagram P)	26	26
	Connector EURO AV3	(Diagram R)	26	26
7.	Electrical adjustments		27	
8.	Fault finding methods and repair tips		29	
9.	Direction for use		31	
10.	Electrical parts list		33	

Published by Consumer Electronics Printed in The Netherlands ©Copyright reserved Subject to modification GB 4822 727 20266

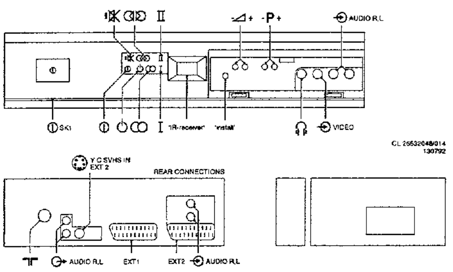
1. Technical data

Mains voltage : 220 - 240 V (± 10%)
: 50 Hz - 60 Hz (± 5%)
Aerial input impedance : 75 Ω - koaxial
Minimum aerial voltage : 30 µV (VHF), 40 µV (UHF)
Maximum aerial voltage VHF/S/UHF : 180 mV

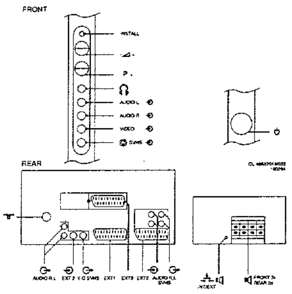
Programmes : 0 - 99
VCR programmes : 0, 50 - 99

2. Connection facilities and Chassis overview

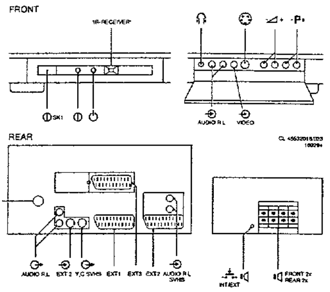
FL1


AUDIO R,L
SK1
'IR-receiver'
'install'
VIDEO
CL 26532048/014
130792
Y C SVHS IN
EXT 2
REAR CONNECTIONS
AUDIO R,L
EXT1
EXT2
AUDIO R,L

FL2


FRONT
INSTALL
P
AUDIO L
AUDIO R
VIDEO
SVHS
REAR
AUDIO R,L
EXT 2
Y C SVHS
EXT1
EXT3
EXT2
AUDIO R,L
SVHS
INT/EXT
FRONT 2x
REAR 2x

FL4


FRONT
'IR-RECEIVER'
SK1
AUDIO R,L
VIDEO
REAR
CL 45532016/023
160294
AUDIO R,L
EXT 2
Y,C SVHS
EXT1
EXT3
EXT2
AUDIO R,L
SVHS
INT/EXT
FRONT 2x
REAR 2x

Specification of the connectors

EXT1 (AUX): RGB+CVBS

1 -Audio ⊖→ R(0,5VRMS ≤ 1kΩ)
2 -Audio ⊕ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ⊖→ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 -Blue ⊥
6 -Audio ⊕ L(0,2-2VRMS ≥ 10kΩ)
7 -Blue (0,7V_{pp}/75Ω)
8 -CVBS-status ⊕ 0-2V: INT
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3
9 -Green ⊥
10 --
11 -Green (0,7V_{pp}/75Ω)
12 --
13 -Red ⊥
14 -RGB-status
15 -Red (0,7V_{pp}/75Ω)
16 -RGB-status (0-0,4V: INT)
(1-3V: EXT/75Ω)
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊖→ (1V_{pp}/75Ω)
20 -CVBS ⊕ (1V_{pp}/75Ω)
21 -Earthscreen

EXT2 (VCR): Y/C+CVBS

1 -Audio ⊖→ R(0,5VRMS ≤ 1kΩ)
2 -Audio ⊕ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ⊖→ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 --
6 -Audio ⊕ L(0,2-2VRMS ≥ 10kΩ)
7 --
8 -CVBS-status ⊕ 0-2V: int
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3
⊕ 4,5: EXT 16:9
9 --
10 --
11 --
12 --
13 -CHROMA ⊥
14 --
15 -CHROMA ⊕ (1V_{pp}/75Ω)
16 --
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊖→ (1V_{pp}/75Ω)
20 -CVBS/Y ⊕ (1V_{pp}/75Ω)
21 -Earthscreen

EXT3: CVBS

1 --
2 -Audio ⊕ R(0,2-2VRMS ≥ 10k
3 --
4 -Audio ⊥
5 --
6 -Audio ⊕ L(0,2-2VRMS ≥ 10k
7 --
8 --
9 --
10 --
11 --
12 --
13 --
14 --
15 --
16 --
17 --
18 -CVBS ⊥
19 --
20 -CVBS ⊕ (1V_{pp}/75Ω)
21 -Earthscreen

EXT2 (SVHS) (rear)

SVHS
1 - ⊥
2 - ⊥
3 - Y ⊕ (1V_{pp}; 75Ω)
4 - C ⊕ (0,3V_{pp}; 75Ω)

◎ CINCH Audio ⊕ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊕ R(0,5VRMS; ≥ 10kΩ)

Audio out (rear)

◎ CINCH Audio ⊖→ L(0,5VRMS; ≤ 1kΩ)
◎ CINCH Audio ⊖→ R(0,5VRMS; ≤ 1kΩ)

EXT3 (front)

◎ CINCH Video ⊕ 300mV_{pp}/75Ω
◎ CINCH Audio ⊕ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊕ R(0,5VRMS; ≥ 10kΩ)

⊙ 3.5mm 32-2000Ω ≥ 10mW

Erratum

GB

In this reprinted service manual the following diagrams have been replaced:

Diagram		Page
Block diagram		4
Source Select	(Diagram C)	7
Synchronisation FLx.26/.27	(Diagram B)	8
Video processing	(Diagram D)	9
Synchronisation FLx.24	(Diagram B)	10
Sound Processing	(Diagram F)	11
Power supply FLx.26/.27	(Diagram A)	12
SCAVEM	(Diagram Z)	18
PiP	(Diagram J)	21
LFR box	(Diagram M)	22

The following Service Informations are included:

FL 94.03
FL 94.05

Corrections to Chapter 7

Paragraph 3.2 and 3.4

Actual	Must be
(fig. 7.9)	(fig. 7.4)
7.64µs	6.4µs
Figure 7.4	
744µs ± 175ns	6.4µs ± 175ns

Corrections to Chapter 8

Paragraph 5

In some versions it is not possible to re-route the signal path after removing the PiP module because of the use of different connectors.

Paragraph 8.4.1 and 8.4.2

Error message 99 (software protection) is not indicated by the LED's any more.
In case of hardware protection the set switches to stand-by and back on again, once in every few seconds.
Just before switching to stand-by, in case of protection, both red and green LED's light up.

Erratum

Ⓓ

In diese Nachdruck der Service Manual sind die folgende Schaltbilder geändert worden.

Schaltbild		Seite
Blockschaltbild		4
Quellenwahl	(Schaltbild C)	7
Synchronisierung FLx.26/.27	(Schaltbild B)	8
Video Verarbeitung	(Schaltbild D)	9
Synchronisierung FLx.24	(Schaltbild B)	10
Ton Verarbeitung	(Schaltbild F)	11
Stromversorgung FLx.26/.27	(Schaltbild A)	12
SCAVEM	(Schaltbild Z)	18
Bild im Bild	(Schaltbild J)	21
LFR box	(Schaltbild M)	22

Die folgenden Service Informationen sind Beigeliefert:

FL	94.03
FL	94.05

Korrekturen zur Kapitel 7

Paragraph 3.2 und 3.4

Jetzt	Muß sein
(Abb. 7.9) 7.64µs	(Abb. 7.4) 6.4µs
Abbildung 7.4 744µs ± 175ns	6.4µs ± 175ns

Korrekturen zur Kapitel 8

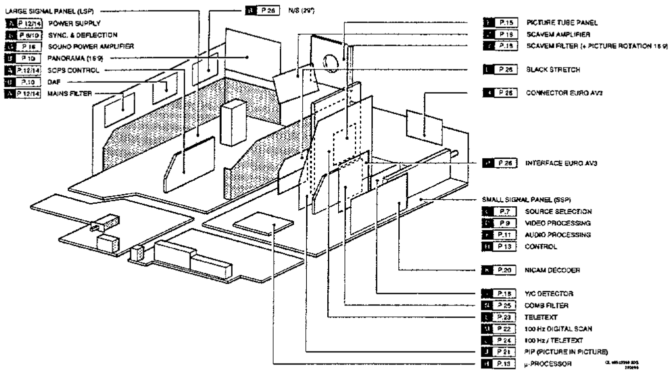
Paragraph 5

In manche Versionen ist es nicht möglich um das Signal durch zu fuhren, wenn das Bild im Bild Modul entfernt ist, weil unterschiedliche Stecker gebraucht worden sind.

Paragraph 8.4.1 und 8.4.2

Fehlermeldung 99 (Software-Schutz) wird nicht mehr angezeigt von der LED's.
Wenn die Hardware-Schutz aktiv ist, schaltet das Gerät zu Stand-by und wieder ein, mit ein Frequenz von einmal in einige Sekunden.
Kurz bevor das Gerät zu Stand-by geschaltet wird, leuchten beide LED's gleichzeitig auf.

Chassis overview


LARGE SIGNAL PANEL (LSP)
A P 12/14 POWER SUPPLY
B P 8/10 SYNC. & DEFLECTION
C P 16 SOUND POWER AMPLIFIER
B P 10 PANORAMA (16:9)
A P.12/14 SCPS CONTROL
B P.10 DAF
A P 12/14 MAINS FILTER
B P 26 N/S (29")
P.15 PICTURE TUBE PANEL
P 19 SCAVEM AMPLIFIER
P.15 SCAVEM FILTER (+ PICTURE ROTATION 16:9)
P 26 BLACK STRETCH
P 26 CONNECTOR EURO AV3
P 26 INTERFACE EURO AV3
SMALL SIGNAL PANEL (SSP)
P.7 SOURCE SELECTION
P 9 VIDEO PROCESSING
P.11 AUDIO PROCESSING
P 13 CONTROL
P.20 NICAM DECODER
P.18 Y/C DETECTOR
P 25 COMB FILTER
P.23 TELETEXT
P 22 100 Hz DIGITAL SCAN
P 24 100 Hz / TELETEXT
P 21 PIP (PICTURE IN PICTURE)
P.13 µ-PROCESSOR

3. Warnings and Notes

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠.

2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

3. **ESD** ⚠

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube.

6. Never replace modules or other components while the unit is switched on.

7. It is recommended that safety goggles are worn when replacing the picture tube.

8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

9. After repair the wiring should be fastened once more in the cable clamps for this purpose.

10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements. **The heat sink for the sound output amplifier is connected to the -16/-11 volts.**

11. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.

12. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

Notes

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⏚), or hot earth (⊥) as this is called.

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** (see chapter 8) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

3. Where necessary, the oscillograms and direct voltages are measured with (┓┏) and without aerial signal (✕) Voltages in the power supply section are measured both for normal operation (⏻) and in standby (ⓘ). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

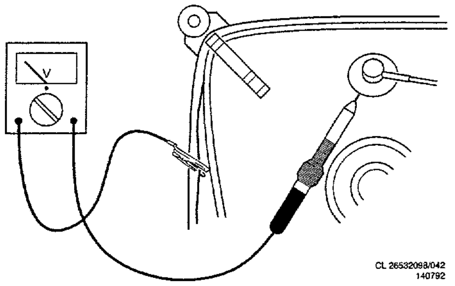

V
CL 26532098/042
140792

Fig. 3.1

4. Mechanical instructions

It is extremely important that following disassembly all cables are replaced in their original positions in order that safety and sound and picture quality may be guaranteed.

1. Model overview (fig. 1)

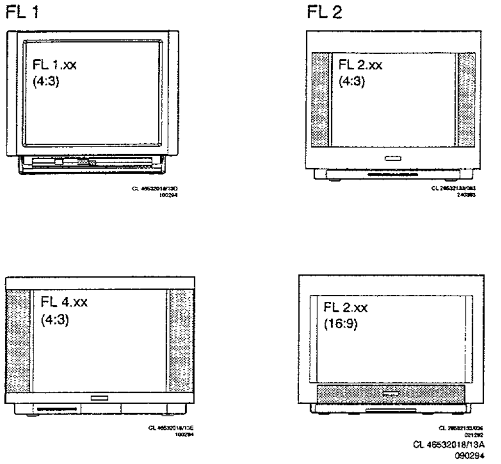


Fig. 4.1

2. Removing the rear panel (fig. 2 + 3)

Before the rear panel is removed the connection to the subwoofer should first be disconnected:
FL1: Open the flap in the rear panel. Disconnect the subwoofer cable. (connector L36)
FL2: Remove the three screws A with which the grille is fixed. Tap the grille downwards as indicated by arrow 1, so that the grille becomes loose. Remove the grille from the rear panel by pulling it in the direction indicated by arrow 2.
Disconnect the cable from the subwoofer as indicated by arrow 3. Remove screws B and C, and also screws D if present or lugs E for FL4.
Remove the rear panel from the set.

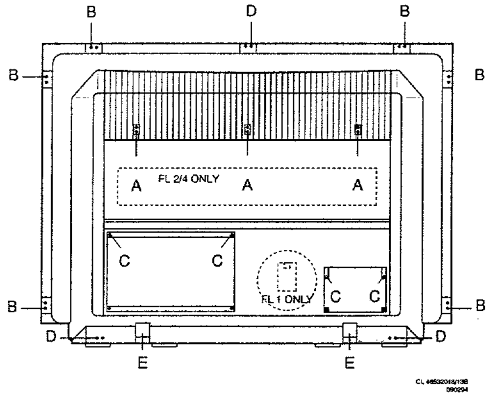


Fig. 4.2

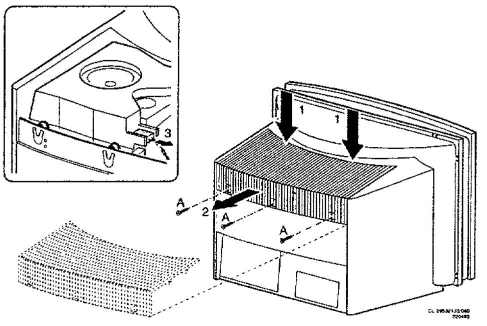


Fig. 4.3

3. Service positions FL1

FL1 can be placed in two service positions. (Fig. 4)
Remove the rear panel. Remove the screw behind the flap on the front side of the set.

Service position 1:

If present, press down the lugs with which the chassis is secured and pull both panels simultaneously to the rear, removing any hindering cables from the cable ties if necessary. Place the panels vertically behind the set as illustrated in figure 4a.

Service position 2:

Disconnect connectors L01, L02 and L03 that connect the small (SSP) and large signal panel (LSP) together. Pull the panel concerned backwards out of the set. Using extension cable set 4822 320 20209 (fig.5) reconnect both panels together. Place the panel concerned behind the set as illustrated in figure 4b.

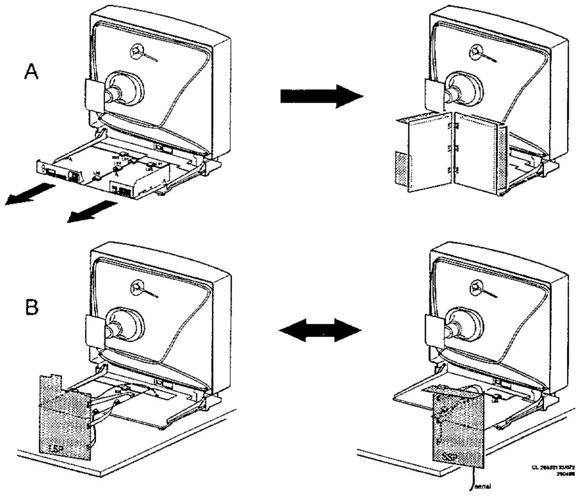


Fig. 4.4

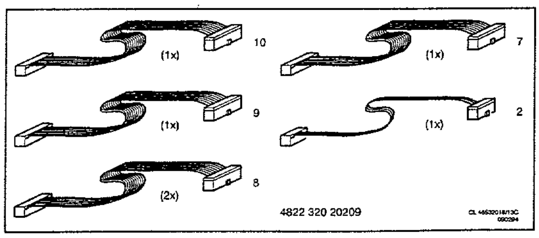


Fig. 4.5

4. Service positions FL2 (fig. 6)

FL2 can be placed in two service positions. (fig.6)
Remove the rear panel.

Service position 1:

Disconnect connectors E47 and E48. These connectors are located on the side of the set and connect the chassis with the audio, video and headphone connections (FRONT).
Lift the chassis frame at the rear and remove it from the cabinet, removing any hindering cables from the cable ties if necessary. Place the frame one position to the rear, taking care to ensure that the chassis frame lugs are located into the correct recesses.

Service position 2:

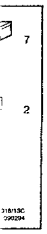
Place the chassis in service position 1.
Click the infra-red receiver (IR) out of the retainer located under the picture tube.
Remove the cables to the panel with buttons for

g. 4)
iind the

ich the

ly
ecessary.
et as

)3 that
al panel
d
on cable
oth
rned



.6)

iese
e set and
o and

move it
g cables
ie frame
nsure
nto the

e retainer

tons for

local operation from their ties and then click the operating panel out of its holder.
Disconnect the cable to the degaussing coil on the picture tube from the mains filter panel.
Remove the cables from and to the mains filter from their cable ties. Click the two service legs loose and place them vertically in the holes as indicated in the diagram. Tilt the entire chassis frame and place the entire unit on both service legs so that the solder side is accessible.

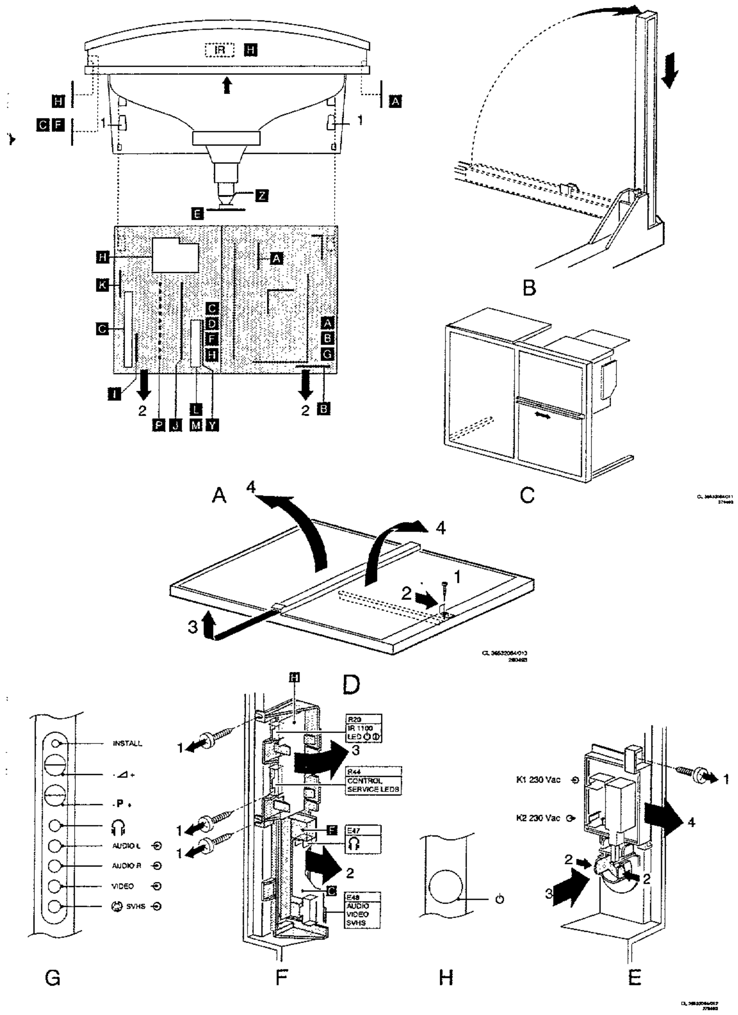


Fig. 4.6

5. Service position FL4 (fig. 7)

An FL4 model can be put into service position 1 in the same manner as an FL2 model.
Service position 2 is accomplished by tilting the whole frame once the cabling has been disconnected (the cable to the front connectors (E47, E48) may be disconnected). A stud on the frame and a hook on the case ensure a stable service position.

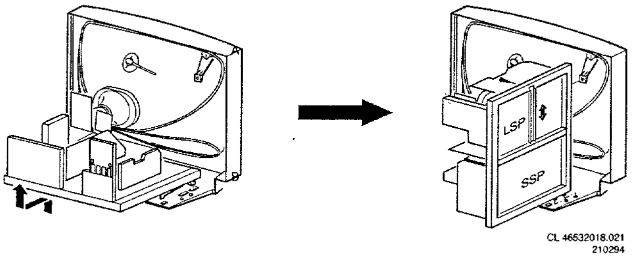


Fig. 4.7

6. Removing the mask from FL2 (fig. 8)

Remove the rear panel. Remove the chassis frame with the chassis from the cabinet.
Remove screws E as indicated in the diagram. Loosen the snap connection under the picture tube. Remove the masker in the manner illustrated in the diagram.

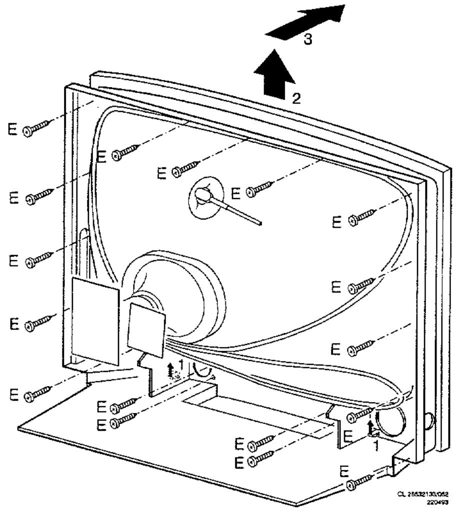


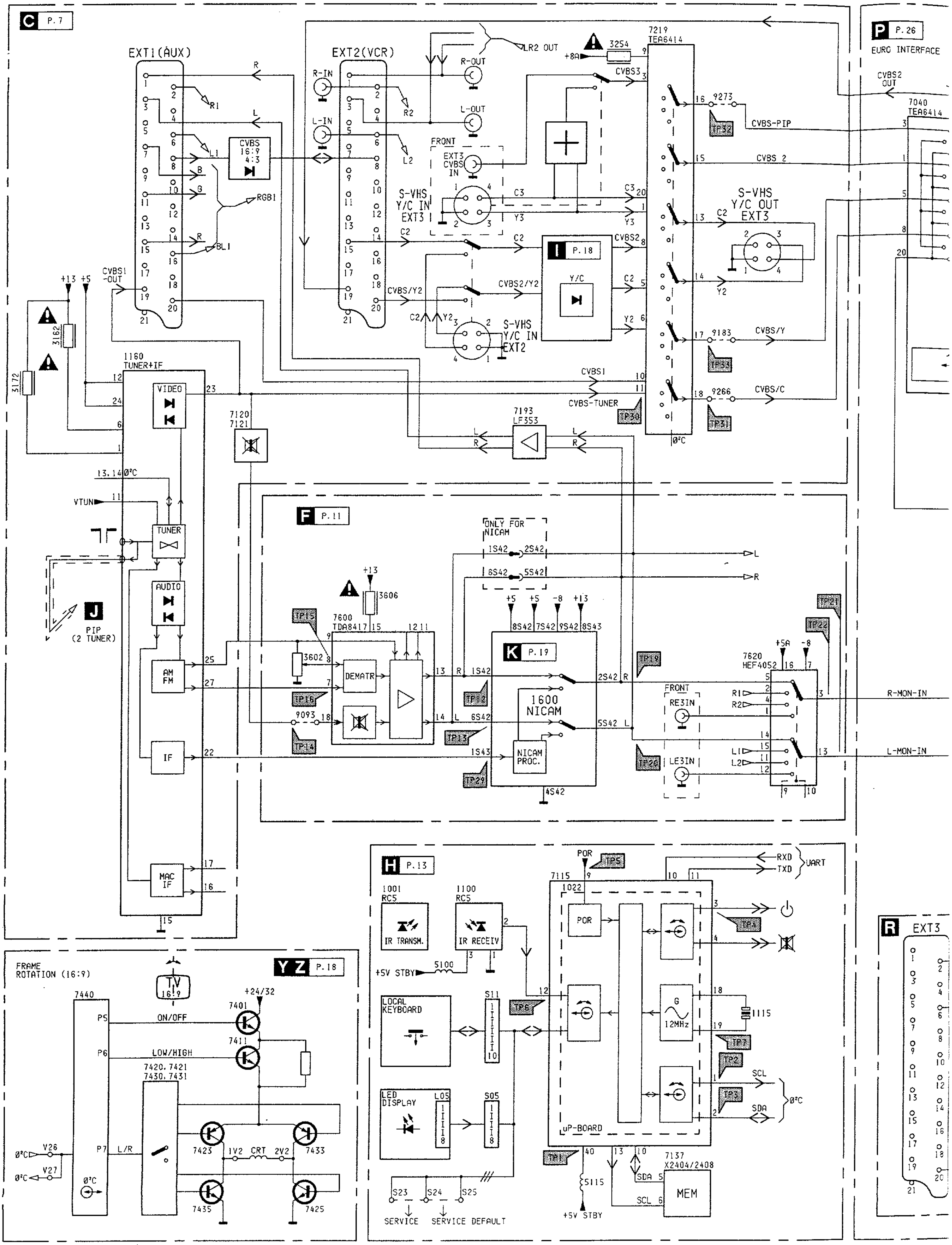
Fig. 4.8

7. Replacing the picture tube.

Remove the rear panel.
Discharge the picture tube in the manner described in chapter 3. Remove the chassis, or the chassis with the chassis frame from the cabinet. Disconnect all cabling to the picture tube. Tilt the set so that the front of the picture tube is pointing downwards, taking care that the picture tube comes to rest on a soft and clean surface. Loosen the four bolt on the picture tube corners and drop the cabinet gently down onto the work surface. The picture tube can now be removed from the cabinet.

In FL2 special nylon picture tube tubular rivets have been applied. In order to guarantee optimum strength these should not be re-used. Take care to fit correctly when replacing. Tighten the picture tube screws one-by-one until a torque of approximately 1kgm (10Nm) is achieved. The picture tube tubular rivets are obtainable under code numbers:
For 28" picture tubes and smaller: 4822 532 12243 (≤ 28")
For 29" picture tubes and larger: 4822 404 31294 (≥ 29")
Four tubular rivets are required per picture tube.

Blockdiagram / Blockschaltbild /


C P.7
EXT1(AUX)
EXT2(VCR)
R
L
R1
L1
CVBS 16:9 4:3
B
G
RGB1
BL1
R-IN
L-IN
R-OUT
L-OUT
LR2 OUT
R2
L2
FRONT
EXT3 CVBS IN
S-VHS Y/C IN EXT3
C3
Y3
C2
CVBS/Y2
CVBS2/Y2
S-VHS Y/C IN EXT2
I P.18
Y/C
CVBS2
Y2
3254
+8A
7219 TEA6414
CVBS3
9273
CVBS-PIP
TP32
CVBS 2
S-VHS Y/C OUT EXT3
9183
CVBS/Y
TP33
9266
CVBS/C
TP31
CVBS1
CVBS-TUNER
TP30
0°C
P P.26
EURO INTERFACE
CVBS2 OUT
7040 TEA6414
+13 +5
CVBS1 -OUT
3162
3172
1160 TUNER+IF
VIDEO
7120 7121
7193 LF353
13,14 0°C
VTUN
TUNER
AUDIO
J
PIP (2 TUNER)
AM FM
IF
MAC IF
F P.11
ONLY FOR NICAM
1S42
2S42
6S42
5S42
+13
3606
TP15
7600 TDA8417
3602
DEMATR
TP16
9093
TP14
+5 +5 -8 +13
8S42 7S42 9S42 8S43
K P.19
1S42
2S42
6S42
5S42
TP12
TP13
1600 NICAM
1S43
NICAM PROC.
TP27
4S42
TP19
TP29
FRONT
RE3IN
LE3IN
TP21
TP22
+5A -8
7620 HEF4052
R1
R2
L1
L2
R-MON-IN
L-MON-IN
H P.13
1001 RC5
IR TRANSM.
1100 RC5
IR RECEIV
+5V STBY
5100
LOCAL KEYBOARD
S11
TP6
LED DISPLAY
L05
S05
S23
S24
S25
SERVICE
SERVICE DEFAULT
POR
TP5
7115
1022
RXD
TXD
UART
TP4
12MHz
1115
TP7
TP2
TP3
SCL
SDA
0°C
uP-BOARD
TP1
5115
+5V STBY
7137 X2404/2408
MEM
R
EXT3
Y Z P.18
FRAME ROTATION (16:9)
TV 16:9
7440
+24/32
7401
ON/OFF
7411
LOW/HIGH
7420,7421 7430,7431
L/R
7423
7433
1V2
CRT
2V2
7435
7425
V26
V27
0°C
P5
P6
P7

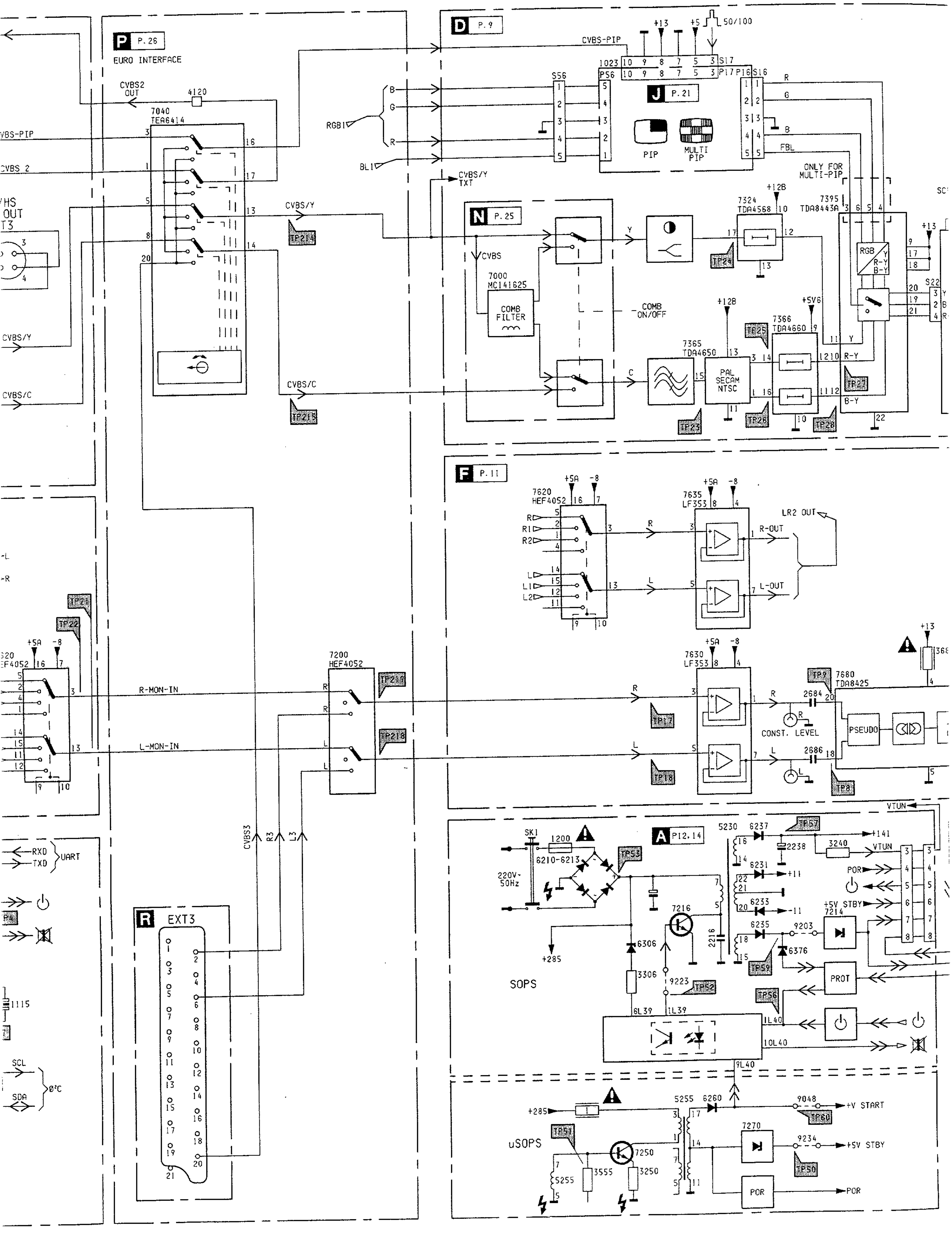
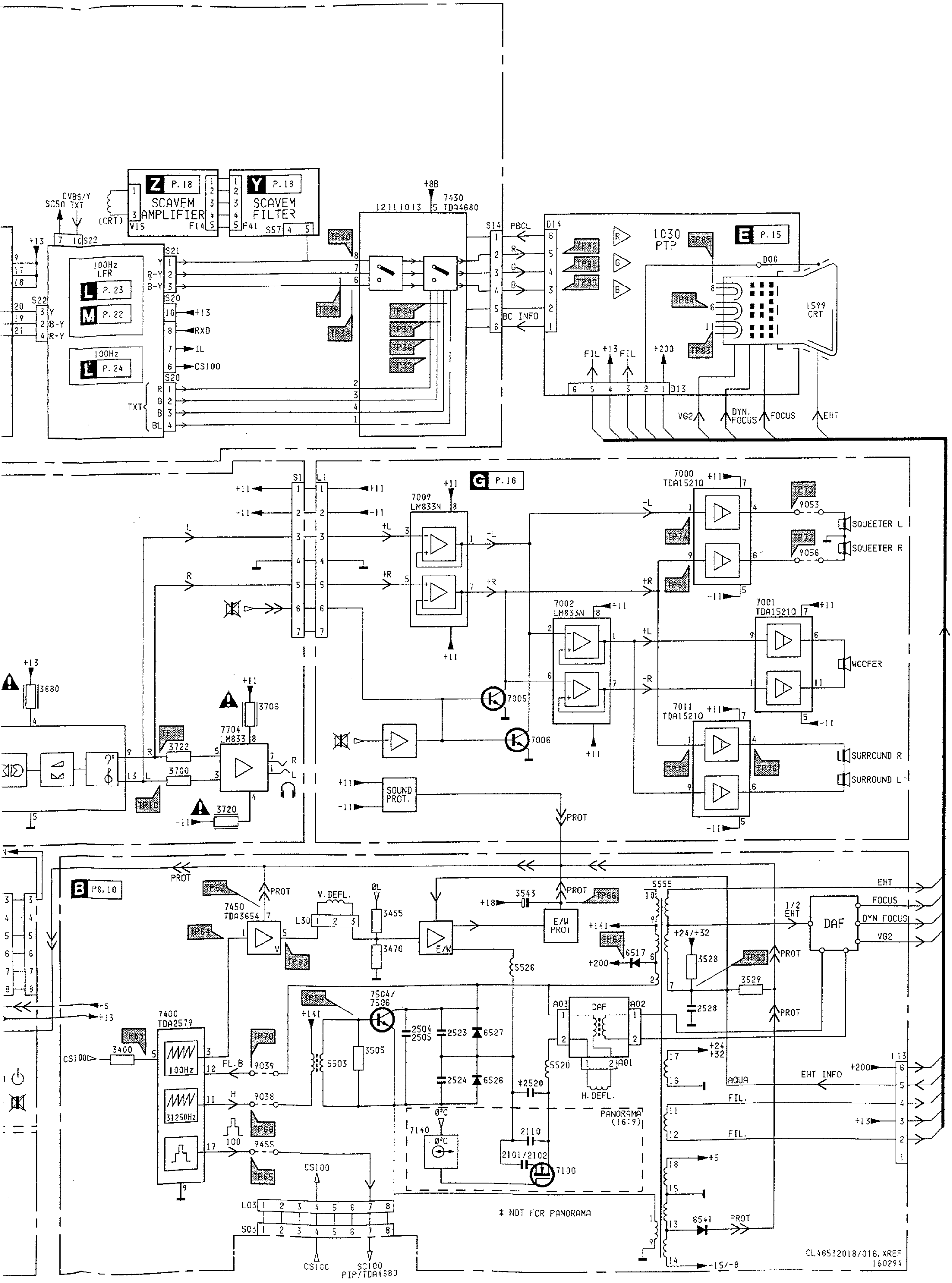
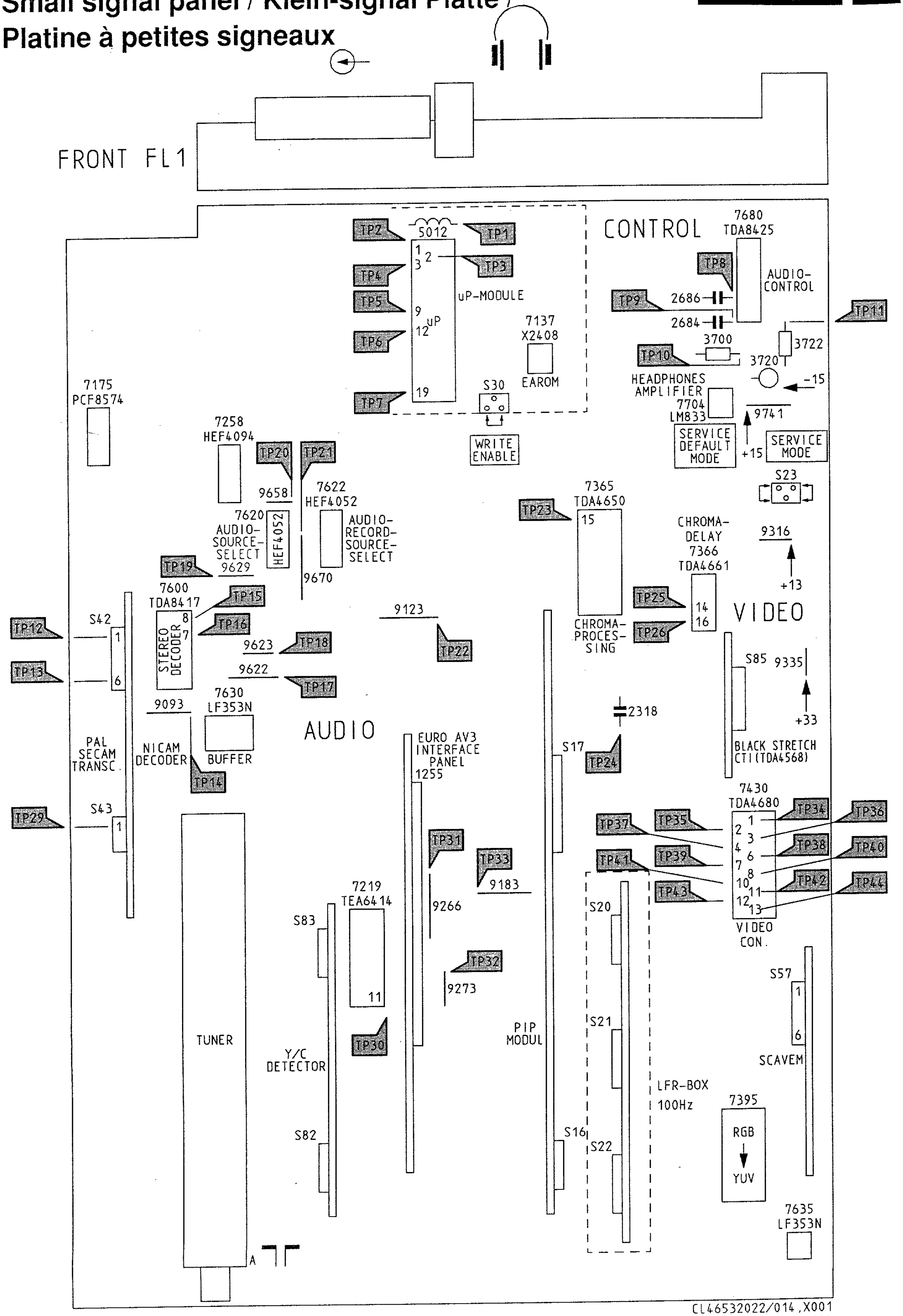

P P.26
EURO INTERFACE
CVBS2 OUT
4120
7040
TEA6414
VBS-PIP
CVBS 2
VHS OUT
T3
CVBS/Y
CVBS/C
TP214
TP215
D P.9
CVBS-PIP
+13
+5
50/100
1023
S17
P56
P17
P16
S16
S56
J P.21
PIP
MULTI PIP
RGB1
BL1
B
G
R
FBL
CVBS/Y TXT
ONLY FOR MULTI-PIP
N P.25
CVBS
7000
MC141625
COMB FILTER
COMB ON/OFF
Y
C
+12B
7324
TDA4568
TP24
7395
TDA8443A
RGB
R-Y
B-Y
+13
S22
7365
TDA4650
PAL SECAM NTSC
TP23
+5V6
7366
TDA4660
TP25
TP26
TP27
TP28
F P.11
+5A
-8
7620
HEF4052
R
R1
R2
L
L1
L2
7635
LF353
LR2 OUT
R-OUT
L-OUT
TP21
TP22
7620
HEF4052
R-MON-IN
L-MON-IN
7200
HEF4052
TP219
TP218
7630
LF353
TP17
TP18
+13
7680
TDA8425
TP9
TP8
2684
2686
CONST. LEVEL
PSEUDO
CVBS3
R3
L3
R EXT3
RXD
TXD
UART
1115
SCL
SDA
I²C
A P12.14
SK1
1200
6210-6213
220V~ 50Hz
TP53
+285
7216
2216
6306
3306
9223
TP52
SOPS
6L39
1L39
1L40
10L40
9L40
5230
6237
TP57
2238
3240
+141
VTUN
6231
+11
6233
-11
POR
+5V STBY
7214
6235
9203
6376
TP59
TP56
PROT
5255
6260
9048
+V START
TP60
7270
9234
+5V STBY
TP50
TP51
uSOPS
7250
3555
3250
POR

Diagramme schématique

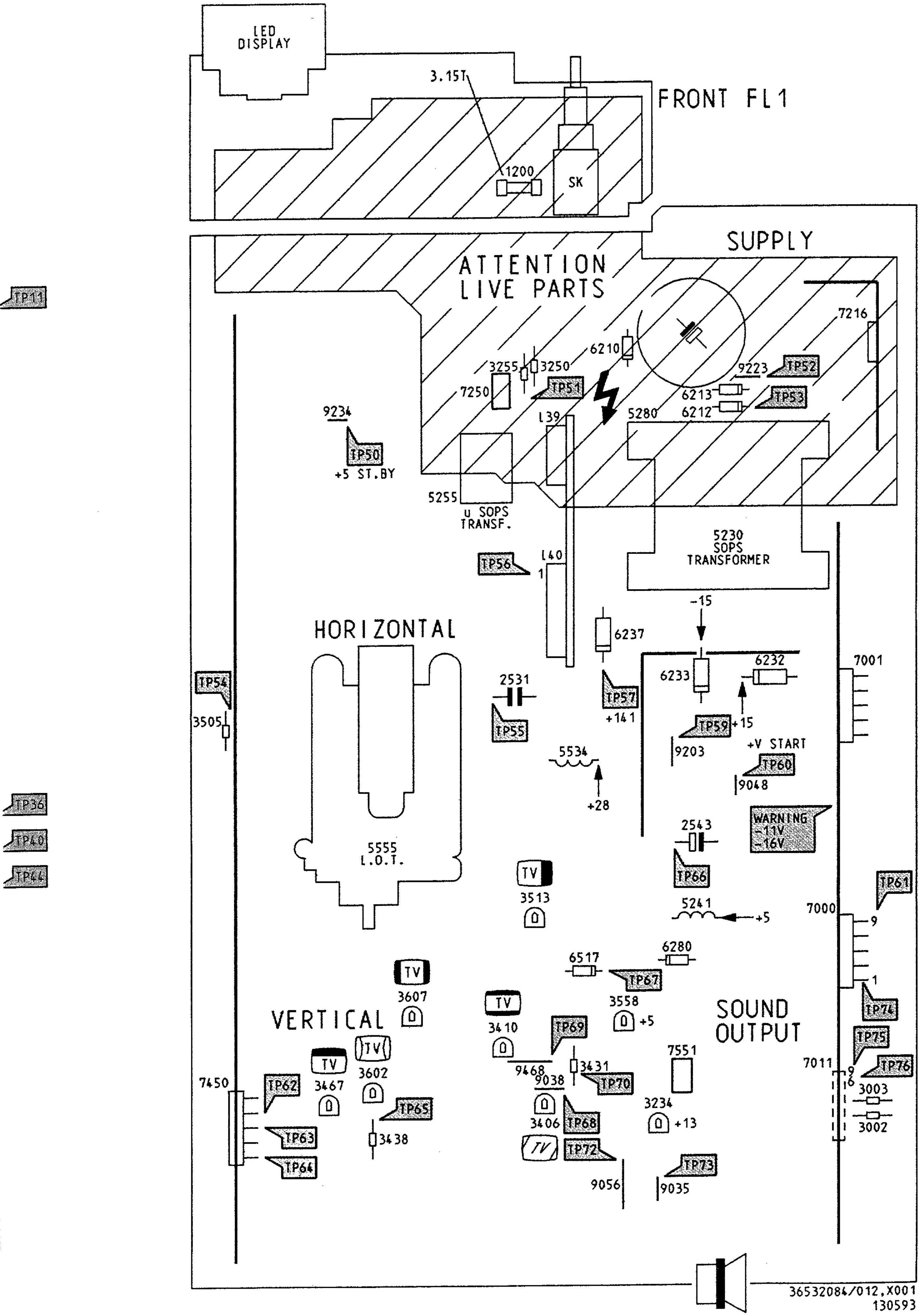

Z P.18
SCAVEM AMPLIFIER
Y P.18
SCAVEM FILTER
CVBS/Y TXT
SC50
(CRT)
V15
F14
F41
S57
S22
S21
S20
100Hz LFR
L P.23
M P.22
100Hz
L P.24
TXT
+13
RXD
IL
CS100
+8B
7430 TDA4680
TP40
TP39
TP38
TP34
TP37
TP36
TP35
S14
PBCL
BC INFO
D14
1030 PTP
E P.15
TP85
TP82
TP81
TP80
TP84
TP83
D06
1599 CRT
FIL
+13
+200
D13
VG2
DYN. FOCUS
FOCUS
EHT
G P.16
S1
L1
+11
-11
7009 LM833N
7000 TDA1521Q
7002 LM833N
7001 TDA1521Q
7011 TDA1521Q
7005
7006
TP73
TP72
TP74
TP61
TP75
TP76
9053
9056
SQUEETER L
SQUEETER R
WOOFER
SURROUND R
SURROUND L
SOUND PROT.
PROT
+13
3680
3706
7704 LM833
TP11
3722
3700
3720
TP10
B P8.10
TP62
7450 TDA3654
TP64
TP63
V. DEFL.
L30
3455
3470
3543
+18
E/W
E/W PROT
TP66
5555
+141
TP67
6517
+200
+24/+32
3528
2528
3529
TP55
EHT
1/2 EHT
DAF
FOCUS
DYN FOCUS
VG2
5526
7400 TDA2579
TP69
TP70
3400
CS100
100Hz
31250Hz
FL.B
9039
H
9038
TP68
100
9455
TP65
TP54
7504/7506
5503
3505
2504
2505
2523
6527
2524
6526
A03
A02
A01
5520
2520
H. DEFL.
0°C
7140
2110
2101/2102
7100
PANORAMA (16:9)
* NOT FOR PANORAMA
L03
S03
CS100
SC100 PIP/TDA4680
L13
AQUA
EHT INFO
FIL.
+5
6541
-15/-8
+5
+13
CL 46532018/016.XREF 160294

Small signal panel / Klein-signal Platte / Platine à petites signeaux

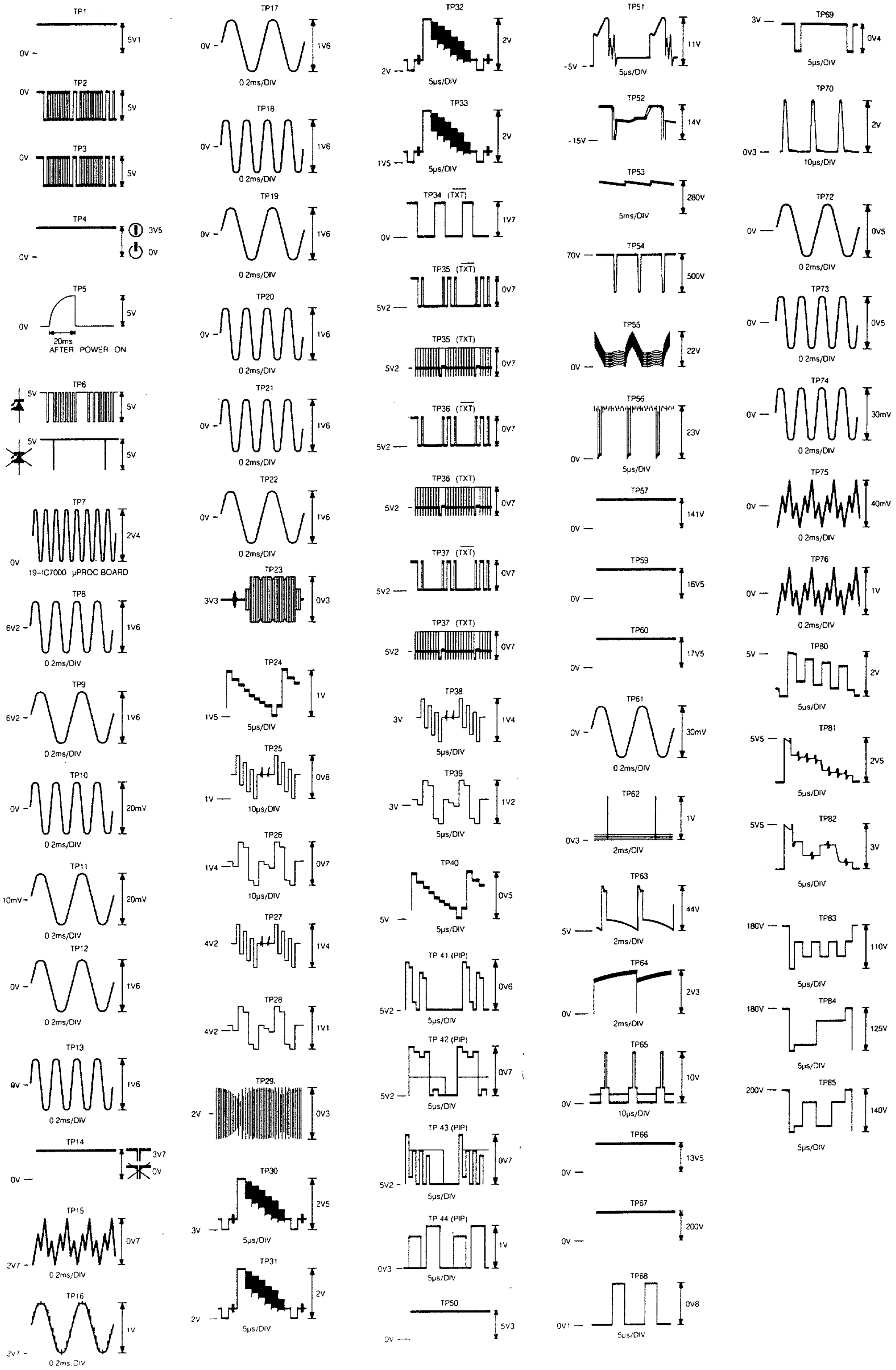

FRONT FL1
CONTROL
TP1
TP2
5012
TP3
TP4
TP5
TP6
TP7
1
2
3
9
12
uP
19
uP-MODULE
7137
X2408
EAROM
S30
WRITE ENABLE
7680
TDA8425
AUDIO-CONTROL
TP8
TP9
2686
2684
TP10
3700
3722
3720
TP11
-15
HEADPHONES AMPLIFIER
7704
LM833
9741
+15
SERVICE DEFAULT MODE
SERVICE MODE
S23
7175
PCF8574
7258
HEF4094
TP20
TP21
9658
7622
HEF4052
AUDIO-RECORD-SOURCE-SELECT
7620
AUDIO-SOURCE-SELECT
HEF4052
9629
9670
TP19
7600
TDA8417
8
7
STEREO DECODER
TP15
TP16
TP12
TP13
S42
1
6
9623
TP18
9622
TP17
9123
TP22
7630
LF353N
BUFFER
9093
NICAM DECODER
TP14
PAL SECAM TRANSC.
AUDIO
TP29
S43
1
7365
TDA4650
15
TP23
CHROMA-PROCES-SING
CHROMA-DELAY
7366
TDA4661
14
16
TP25
TP26
9316
+13
VIDEO
S85
9335
+33
BLACK STRETCH CTI (TDA4568)
2318
S17
TP24
EURO AV3 INTERFACE PANEL
1255
TP31
TP33
9183
9266
TP32
9273
7219
TEA6414
11
TP30
S83
S82
Y/C DETECTOR
TUNER
A
PIP MODUL
S16
7430
TDA4680
TP34
TP35
TP36
TP37
TP38
TP39
TP40
TP41
TP42
TP43
TP44
1
2
3
4
6
7
8
10
11
12
13
VIDEO CON.
S20
S21
S22
LFR-BOX 100Hz
S57
1
6
SCAVEM
7395
RGB
YUV
7635
LF353N

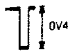
CL46532022/014 .X001
160294

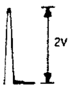
Large signal panel / Groß-signal Platte / Platine forts signeaux

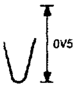

LED DISPLAY
3.15T
FRONT FL1
1200
SK
SUPPLY
ATTENTION LIVE PARTS
7216
6210
3255
3250
TP51
7250
9223
TP52
6213
TP53
6212
5280
L39
9234
TP50
+5 ST.BY
5255
u SOPS TRANSF.
5230 SOPS TRANSFORMER
TP11
TP56
L40
1
HORIZONTAL
-15
6237
6232
6233
7001
TP54
3505
2531
TP57
+141
TP55
TP59
+15
9203
+V START
TP60
9048
5534
+28
TP36
TP40
TP44
5555 L.O.T.
2543
WARNING -11V -16V
TP66
TV
3513
5241
+5
TP61
7000
9
1
6517
6280
TP67
3558
+5
3607
VERTICAL
3410
TP69
SOUND OUTPUT
TP74
TP75
7551
7011
TP76
3602
9468
9038
3431
TP70
7450
TP62
3467
TP65
3406
TP68
3234
+13
6
3003
3002
TP63
3438
TP72
TP73
TP64
9056
9035
36532084/012.X001
130593

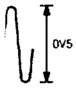
Oscillograms / Oscillogrammes

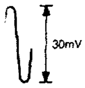


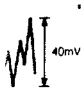

0V4

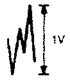

2V

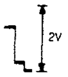

0V5

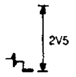

0V5

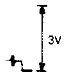

30mV

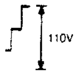

40mV

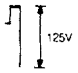

1V

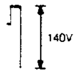

2V


2V5

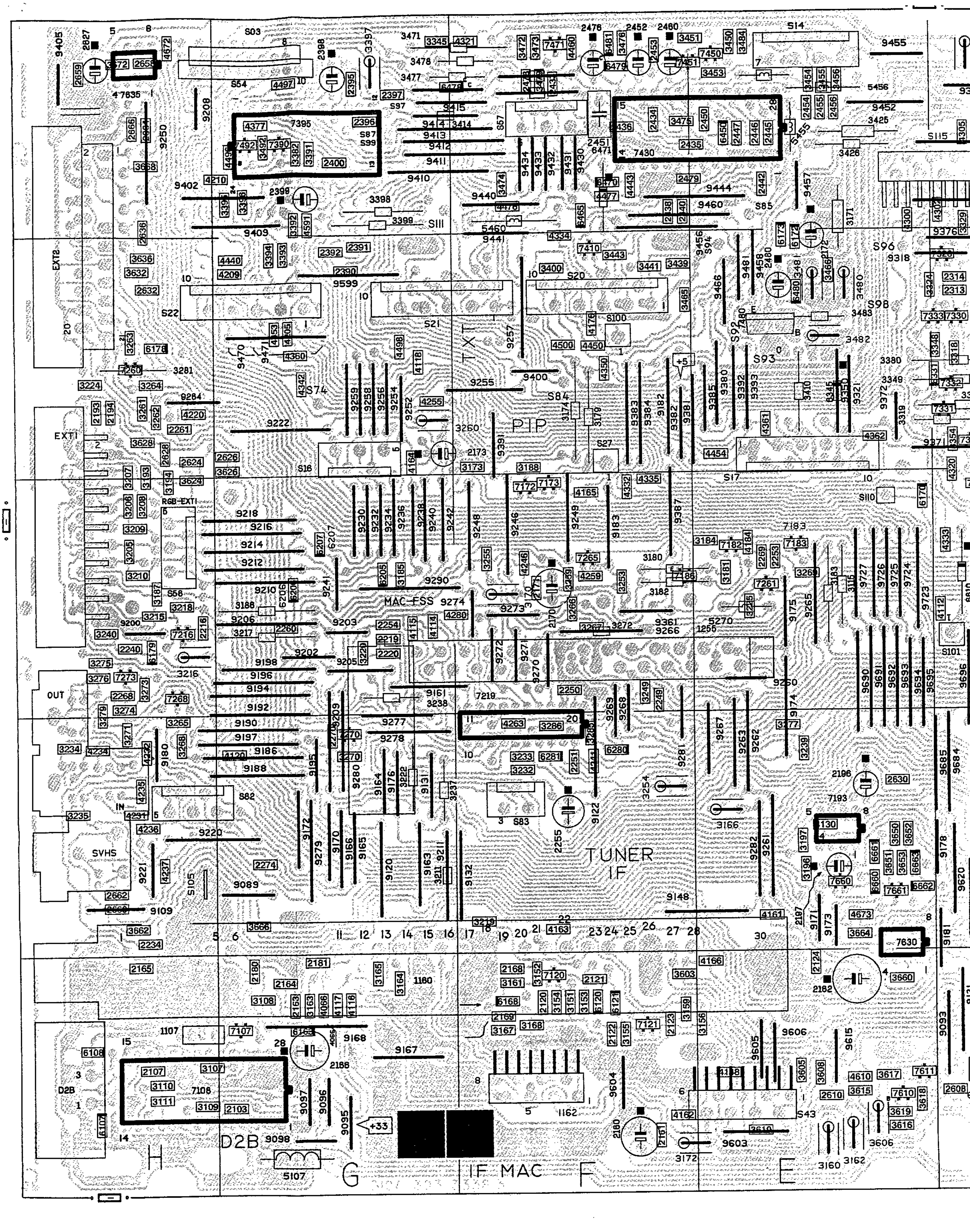

3V


110V


125V

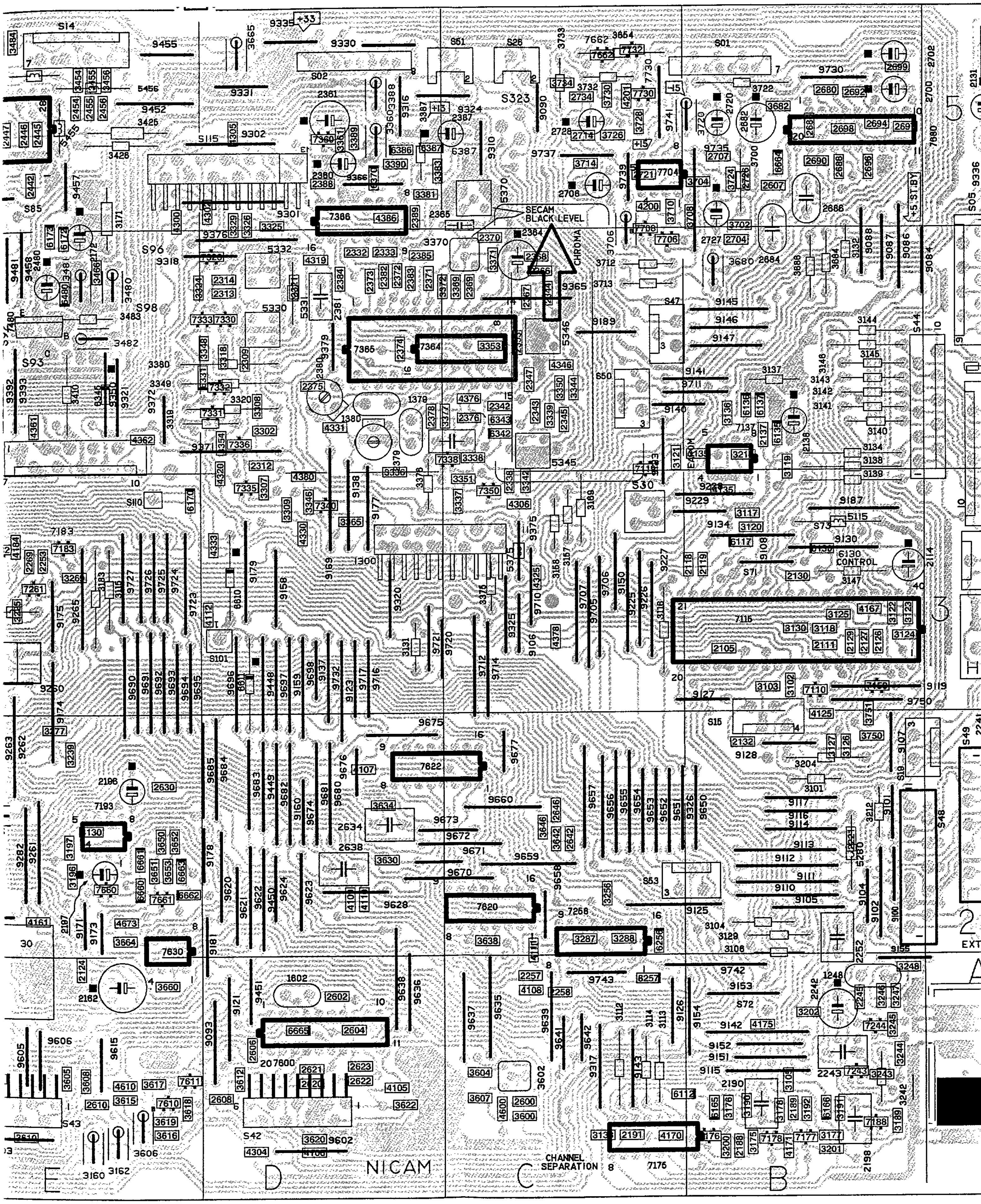

140V

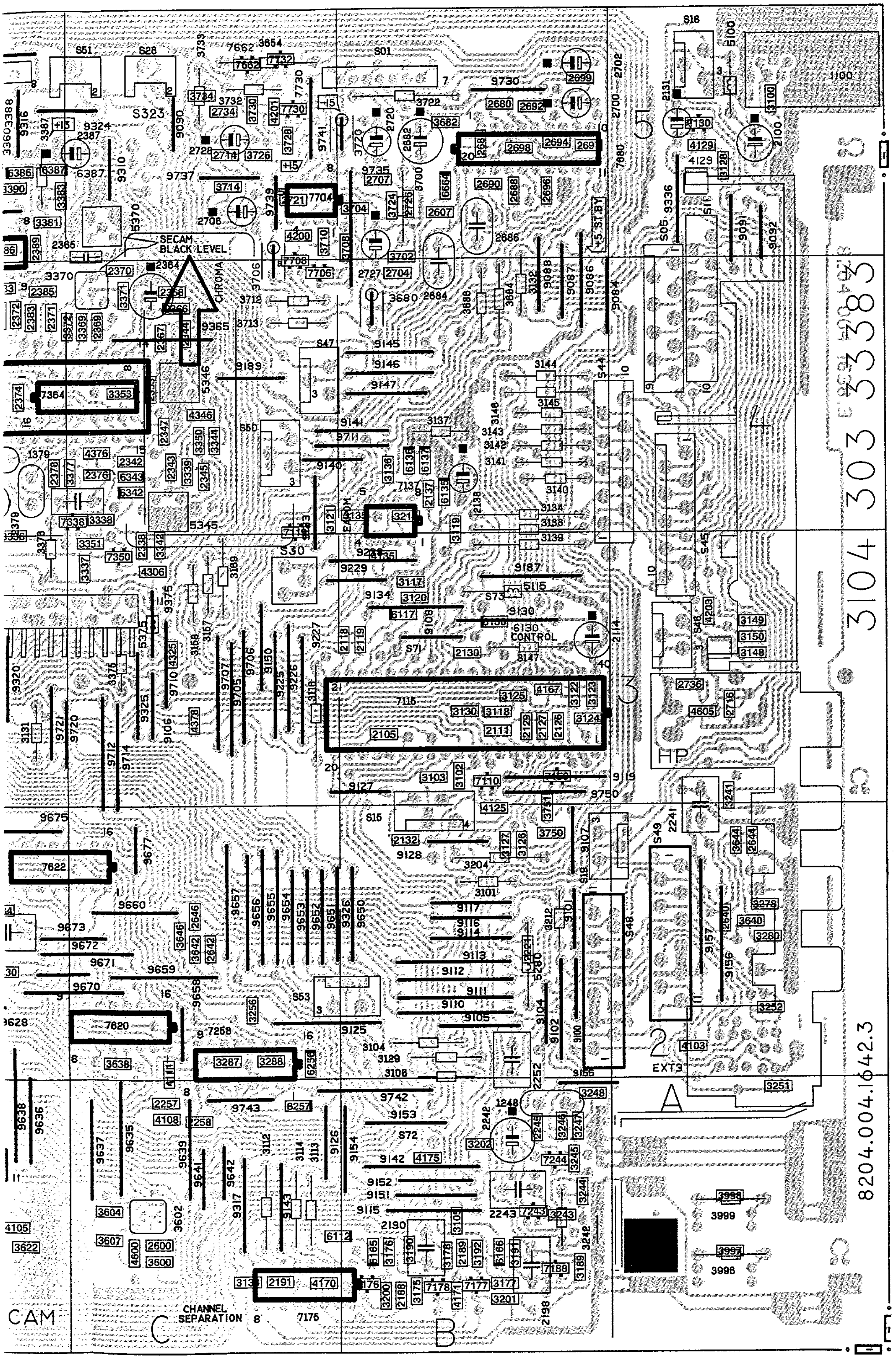
Small signal panel / Klein-signal Platte / Platine à petites signeaux


EXT2
EXT1
RGB-EXT1
OUT
IN
SVHS
D2B
TXT
PIP
MAC-FSS
TUNER
IF
IF MAC
+33
+5
S03
S14
S115
S22
S21
S20
S16
S17
S43
S82
S83
S105
H
G
F
E

PCS 73 729

igneaux

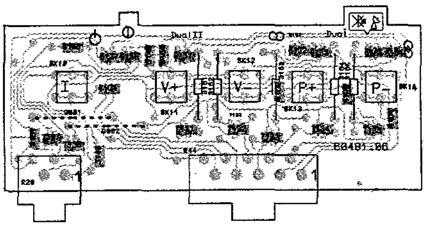

SECAM
BLACK LEVEL
CHROMA
EAROM
6130
CONTROL
+5 ST.BY
NICAM
CHANNEL
SEPARATION
E
D
C
B
EXT


S51
S26
S01
S18
S323
SECAM
BLACK LEVEL
CHROMA
+5 ST.BY
1100
7704
7364
3353
7622
7620
3287
3288
3638
7115
2105
3130
3118
3125
4167
3124
6130
CONTROL
EARMM
S30
S47
S50
S44
S45
S46
S49
S48
S53
S15
S71
S72
S73
S05
S11
HP
EXT3
2736
4605
2716
3999
3998
3997
3996
1379
1248
9365
9189
9675
9660
9673
9672
9671
9670
9659
9743
9742
9153
9142
9152
9151
9115
9125
9105
9110
9111
9112
9113
9114
9116
9117
9127
9128
9750
9119
9141
9140
9145
9146
9147
9187
9229
9134
9130
9108
9730
9737
CHANNEL
SEPARATION
CAM
A
B
C
2
3
4
5
3104 303 3383
8204.004.1642.3

EXT1	H3	2332	D4	3100
EXT2	H4	2333	D4	3101
EXT3	A3	2338	C3	3102
D2B	H1	2342	C4	3103
SVHS	H2	2343	C4	3104
S01	C5	2344	C4	3105
S02	D5	2345	C4	3106
S03	H5	2347	C4	3107
S05	A5	2353	C4	3108
S11	A5	2360	D5	3109
S14	E5	2361	D5	3110
S15	B3	2364	C4	3111
S16	G4	2365	C5	3112
S17	E4	2366	C4	3113
S18	A5	2367	C4	3114
S19	B2	2368	C4	3115
S20	F4	2369	C4	3116
S21	F4	2370	C5	3117
S22	G4	2371	D4	3118
S26	C5	2372	D4	3119
S27	F4	2373	D4	3120
S42	D1	2374	D4	3121
S43	F1	2375	D4	3122
S44	B4	2376	C4	3123
S45	A4	2377	D4	3124
S46	A3	2378	D4	3125
S47	C4	2379	D4	3126
S48	B2	2380	D4	3127
S49	A2	2381	D4	3128
S50	C4	2382	D4	3129
S51	C5	2383	D4	3130
S53	B2	2384	D4	3131
S54	H5	2385	D4	3132
S56	H3	2387	D5	3133
S57	F5	2388	D5	3134
S82	H2	2389	D5	3135
S83	F2	2390	G4	3136
S100	F4	2391	G5	3137
S101	D3	2392	G4	3138
S105	H2	2395	G5	3139
S115	E5	2396	G5	3140
1100	A5	2397	G5	3141
1107	H1	2398	G5	3142
1160	E2	2399	G5	3143
1162	F1	2400	G5	3144
1248	B1	2433	F5	3145
1300	D3	2434	F5	3146
1379	D4	2435	F5	3147
1380	D4	2436	F5	3148
1602	D1	2438	F5	3149
2100	A5	2440	F5	3150
2103	H1	2442	E5	3151
2105	B3	2445	E5	3152
2107	H1	2446	E5	3153
2111	B3	2447	E5	3154
2114	B3	2450	F5	3155
2118	C3	2451	F5	3156
2119	B3	2452	F5	3157
2120	F1	2453	F5	3158
2121	F1	2454	E5	3159
2122	F1	2455	E5	3160
2123	F1	2456	E5	3161
2124	E1	2460	F5	3162
2126	B3	2476	F5	3163
2127	B3	2478	F5	3164
2129	B3	2479	F5	3165
2130	B3	2480	E4	3166
2131	A5	2600	C1	3167
2132	B2	2602	D1	3168
2137	B4	2604	D1	3169
2138	B4	2606	D1	3170
2160	F1	2607	B5	3171
2161	F1	2608	D1	3172
2162	E1	2610	E1	3173
2163	G1	2620	D1	3174
2164	G1	2621	D1	3175
2165	H1	2622	D1	3176
2166	G1	2623	D1	3177
2168	F1	2624	H4	3178
2169	F1	2626	H4	3179
2170	F3	2627	H5	3180
2171	F3	2628	H4	3181
2172	E5	2630	E2	3182
2173	G4	2632	H4	3183
2180	G1	2634	D2	3184
2181	G1	2636	H5	3185
2188	B1	2638	D2	3186
2189	B1	2640	A2	3187
2190	B1	2642	C2	3188
2191	C1	2644	A2	3189
2193	H4	2646	C2	3190
2194	H4	2658	H5	3191
2196	E2	2659	H5	3192
2197	E2	2660	H2	3193
2198	B1	2662	H2	3194
2216	H3	2664	H5	3196
2219	G3	2666	H5	3197
2220	G3	2680	B5	3200
2221	B2	2681	B5	3201
2234	H2	2682	B5	3202
2240	H3	2684	B5	3204
2241	A3	2686	B5	3205
2242	B1	2688	B5	3206
2243	B1	2690	B5	3207
2245	B1	2692	B5	3208
2249	F3	2694	B5	3209
2250	F3	2696	B5	3210
2251	F2	2697	B5	3211
2252	B2	2698	B5	3212
2253	E3	2699	B5	3213
2254	G3	2700	B5	3215
2255	F2	2702	B5	3216
2257	C1	2704	B4	3217
2258	C1	2706	C5	3218
2260	G3	2707	B5	3219
2261	H4	2714	C5	322
2268	H3	2716	A3	322
2269	E3	2720	B5	322
2270	G2	2721	C5	322
2274	G2	2726	B5	323
2309	D4	2727	B5	323
2312	D4	2728	C5	323
2313	D4	2734	C5	323
2314	D4	2736	A3	323

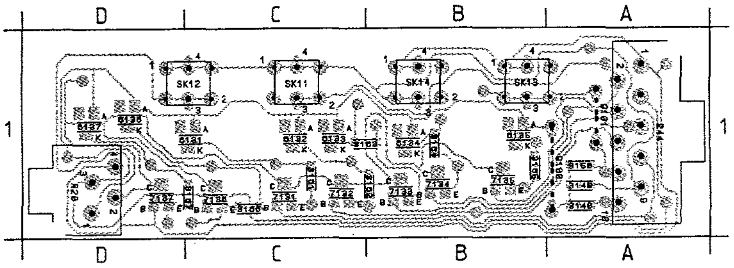
3100	A5	3238	G3	3480	E4	4259	F3	7172	F3	9159	D3	9383	F4
3101	B2	3239	E2	3481	E4	4263	F2	7173	F4	9160	D2	9384	F4
3102	B3	3240	H3	3482	E4	4280	G3	7175	B1	9161	G3	9385	F4
3103	B3	3241	A3	3483	E4	4300	E5	7176	B1	9163	G2	9387	F3
3104	B2	3242	B1	3484	E5	4302	E5	7177	B1	9164	G2	9391	F4
3105	B1	3243	B1	3492	G5	4304	D1	7178	B1	9165	G2	9392	E4
3106	B2	3244	B1	3600	C1	4305	D5	7182	E3	9166	G2	9393	E4
3107	H1	3245	B1	3602	C1	4306	C3	7183	E3	9167	G1	9400	F4
3108	G1	3246	B1	3603	F1	4319	D4	7186	F3	9168	G1	9402	H5
3109	H1	3247	B1	3604	C1	4320	D4	7188	B1	9169	D3	9403	F5
3110	H1	3248	B1	3605	E1	4321	G5	7193	E2	9170	G2	9404	F5
3111	H1	3249	F3	3606	E1	4325	C3	7216	H3	9171	E2	9405	H5
3112	C1	3251	A1	3607	C1	4330	D3	7219	F2	9172	G2	9409	H5
3113	C1	3252	A2	3608	E1	4331	D4	7243	B1	9173	E2	9410	G5
3114	C1	3253	F3	3610	E1	4332	F3	7244	B1	9174	E3	9411	G5
3115	E3	3254	F2	3612	D1	4333	E3	7258	C1	9175	E3	9412	G5
3116	C3	3255	F3	3615	E1	4334	F5	7260	H4	9176	G2	9413	G5
3117	B3	3256	C2	3616	E1	4335	F4	7261	E3	9177	D3	9414	G5
3118	B3	3257	C1	3617	E1	4342	G4	7265	F3	9178	E2	9415	G5
3119	B4	3259	F3	3618	E1	4346	C4	7268	H3	9179	D3	9416	G5
3120	B3	3260	G4	3619	E1	4350	F4	7270	G2	9180	H2	9430	F5
3121	C4	3261	H4	3620	D1	4360	G4	7273	H3	9181	E2	9431	F5
3122	B3	3262	H4	3622	D1	4361	E4	7326	E4	9182	F4	9432	F5
3123	B3	3263	H4	3624	H4	4362	E4	7330	D4	9183	F3	9433	F5
3124	B3	3264	H4	3626	H4	4376	C4	7331	E4	9186	G2	9434	F5
3125	B3	3265	H3	3628	H4	4377	G5	7332	D4	9187	B3	9440	F5
3126	B2	3266	F3	3630	D2	4378	C3	7333	E4	9188	G2	9441	F5
3127	B2	3267	F3	3632	H4	4380	D4	7335	D3	9189	C4	9444	F5
3128	A5	3268	H2	3634	D2	4386	D5	7336	D4	9190	G2	9448	D3
3129	B2	3269	E3	3636	H4	4440	H4	7338	D4	9192	G3	9449	D2
3130	B3	3270	G2	3638	C2	4443	F5	7340	D3	9194	G3	9450	D2
3131	D3	3271	H2	3640	A2	4450	F4	7350	C3	9195	G2	9451	D1
3132	B4	3272	F3	3642	C2	4453	G4	7360	D5	9196	G3	9452	E5
3133	C1	3273	H3	3644	A2	4454	E4	7364	D4	9197	G2	9455	E5
3134	B4	3274	H3	3646	C2	4460	F5	7365	D4	9198	G3	9456	F5
3135	B4	3275	H3	3650	E2	4476	F5	7366	D5	9200	H3	9457	E5
3136	B4	3276	H3	3651	E2	4477	F5	7390	G5	9202	G3	9458	E4
3137	B4	3277	E2	3652	E2	4496	H5	7395	G5	9203	G3	9460	F5
3138	B4	3278	A2	3653	E2	4497	G5	7410	F4	9205	G3	9466	E4
3139	B4	3279	H3	3654	C5	4498	G4	7430	E5	9206	G3	9470	G4
3140	B4	3280	A2	3660	E1	4500	F4	7450	E5	9208	H5	9471	G4
3141	B4	3281	H4	3662	H2	4591	G5	7451	F5	9209	G2	9481	E4
3142	B4	3285	F2	3664	E2	4600	C1	7471	F5	9210	G3	9599	G4
3143	B4	3286	F2	3665	D5	4605	A3	7480	E4	9211	G2	9602	D1
3144	B4	3287	C2	3666	G2	4610	E1	7492	G5	9212	G3	9603	E1
3145	B4	3288	C2	3668	H5	4672	H5	7600	D1	9214	G3	9604	F1
3146	B4	3302	D4	3672	H5	4673	E2	7610	E1	9216	G3	9605	E1
3147	B3	3307	D3	3680	B4	5100	A5	7611	E1	9218	G3	9606	E1
3148	A3	3308	D4	3682	B5	5107	G1	7620	C2	9220	H2	9615	E1
3149	A3	3309	D3	3684	B4	5115	B3	7622	C2	9221	H2	9620	D2
3150	A3	3318	D4	3686	B4	5270	E3	7630	E1	9222	G4	9621	D2
3151	F1	3319	E4	3700	B5	5280	B2	7635	H5	9225	C3	9622	D2
3152	F1	3320	D4	3702	B5	5303	F5	7660	E2	9226	C3	9623	D2
3153	F1	3321	D4	3704	B5	5304	F5	7661	E2	9227	C3	9624	D2
3154	F1	3324	E4	3706	C5	5330	D4	7662	C5	9228	B3	9628	D2
3155	F1	3325	D5	3708	C5	5331	D4	7680	B5	9229	B3	9635	C1
3156	F1	3326	D5	3710	C5	5332	D4	7704	C5	9230	G3	9636	D1
3157	C3	3329	D5	3712	C4	5345	C4	7706	C5	9232	G3	9637	C1
3158	C3	3336	D4	3713	C4	5346	C4	7708	C5	9234	G3	9638	D1
3159	F1	3337	C3	3714	C5	5370	C5	7730	C5	9236	G3	9639	C1
3160	E1	3338	C4	3720	C5	5375	C3	7732	C5	9238	G3	9641	C1
3161	F1	3339	C4	3722	B5	5454	E5	9084	B4	9240	G3	9642	C1
3162	E1	3342	C3	3724	B5	5455	E5	9086	B4	9241	G3	9650	B2
3163	G1	3344	C4	3726	C5	5456	E5	9087	B4	9242	G3	9651	C2
3164	G1	3345	G5	3728	C5	5460	F5	9088	B5	9246	F3	9652	C2
3165	G1	3346	D3	3730	C5	6107	H1	9089	G2	9248	G3	9653	C2
3166	E2	3348	E4	3732	C5	6108	H1	9090	C5	9249	F3	9654	C2
3167	F1	3349	D4	3733	C5	6112	C1	9091	A5	9250	H5	9655	C2
3168	F1	3350	C4	3734	C5	6117	B3	9092	A5	9252	G4	9656	C2
3169	C3	3351	C4	3750	B2	6120	F1	9093	E1	9254	G4	9657	C2
3170	F3	3353	C4	3751	B3	6121	F1	9095	G1	9255	F4	9658	C2
3171	E5	3354	D4	3996	A1	6130	B3	9096	G1	9256	G4	9659	C2
3172	F1	3360	D5	3997	A1	6135	B4	9097	G1	9257	F4	9660	C2
3173	G4	3361	D5	3998	A1	6136	B4	9098	G1	9258	G4	9670	D2
3174	F4	3365	D3	3999	A1	6137	B4	9100	B2	9259	G4	9671	D2
3175	B1	3369	C4	4066	G1	6163	G1	9101	B2	9260	E3	9672	C2
3176	B1	3370	D4	4103	A2	6165	B1	9102	B2	9261	E2	9673	D2
3177	B1	3371	C4	4105	D1	6166	B1	9104	B2	9262	E2	9674	D2
3178	B1	3372	D4	4106	D1	6168	F1	9105	B2	9263	E2	9675	D2
3179	F4	3375	C3	4107	D2	6170	E3	9106	C3	9264	H4	9676	D2
3180	F3	3376	D3	4108	C1	6172	E5	9107	B2	9265	E3	9677	C2
3181	E3	3377	D4	4109	D2	6173	E5	9108	B3	9266	F3	9680	D2
3182	F3	3380	D4	4110	D2	6178	H4	9109	H2	9267	F2	9681	D2
3183	E3	3381	D5	4111	C2	6179	H3	9110	B2	9268	F3	9682	D2
3184	F3	3382	G5	4112	E3	6205	G3	9111	B2	9269	F3	9683	D2
3185	G3	3383	D5	4114	G3	6206	G3	9112	B2	9270	F3	9684	E2
3186	G3	3387	D5	4115	G3	6207	G3	9113	B2	9271	F3	9685	E2
3187	H3	3388	D5	4116	G1	6256	C2	9114	B2	9272	F3	9690	E3
3188	F4	3389	D5	4117	G1	6257	C1	9115	B1	9273	F3	9691	E3
3189	B1	3390	D5	4118	G4	6280	F2	9116	B2	9274	G3	9692	E3
3190	B1	3391	G5	4120	H2	6281	F2	9117	B2	9277	G3	9693	E3
3191	B1	3392	G5	4125	B3	6331	E4	9119	B3	9278	G2	9694	E3
3192	B1	3393	G4	4129	A5	6342	C4	9120	G2	9279	G2	9695	E3
3193	H4	3394	G4	4130	E2	6343	C4	9121	D1	9280	G2	9696	D3
3194	H4	3395	H5	4135	B3	6345	E4	9122	F2	9281	F3	9697	D3
3196	E2	3396	G5	4148	E1	6370	D5	9123	D3	9282	E2	9698	D3
3197	E2	3397	G5	4161	E2	6386	D5	9125	C2	9290	G3	9705	C3
3200	B1	3398	G5	4162	F1	6387	D5	9126	C1	9301	D5	9706	C3
3201	B1	3399	G5	4163	F2	6450	E5	9127	B3	9302	D5	9707	C3
3202	B1	3400	F4	4164	G4	6465	F5	9128	B2	9310	C5	9710	C3
3204	B2	3410	E4	4165	F3	6470	F5	9130	B3	9316	D5	9711	C4
3205	H3	3414	G5	4166	F1	6471	F5	9131	G2	9317	C1	9712	C3
3206	H3	3425	E5	4167	B3	6478	G5	9132	G2	9318	E4	9714	C3
3207	H4	3426	E5	4170	C1	6479	F5	9133	C4	9320	D3	9716	D3
3208	H3	3439	F4	4171	B1	6480	E4	9134	B3	9321	E4	9717	D3
3209	H3	3441	F4	4175	B1	6481	F5	9137	D3	9324	D5	9720	D3
3210	H3	3443	F4	4176	F4	6610	D3	9138	D3	9325	C3	9721	D3
3211	G2	3450	E5	4184	E3	6611	D3	9140	B4	9326	C2	9723	E3
3212	B2	3451	F5	4200	C5	6660	E2	9141	B4	9330	D5	9724	E3
3213	B4	3453	E5	4201	C5	6661	E2	9142	B1	9331	D5	9725	E3
3215	H3	3454	E5	4203	A3	6662	E2	9143	C1	9335	D5	9726	E3
3216	H3	3455	E5	4205	G4	6663	E2	9145	B4	9336	A5	9727	E3
3217	G3	3456	E5	4209	H4	6664	B5	9146	B4	9350	E4	9730	B5
3218	H3	3465	F4	4210	H5	6665	D1	9147	B4	9361	F3	9732	D3
3219	F2	3466	E4	4220	H4	7107	H1	9148	F2	9365	C4	9735	B5
3220	G3	3471	G5	4231	H2	7108	G1	9150	C3	9366	D5	9737	C5
3222	G2	3472	F5	4232	H2	7110	B3	9151	B1	9371	D4	9739	C5
3224	H4	3473	F5	4234	H2	7115	B3	9152	B1	9372	E4	9741	C5
3225	E3	3474	F5	4235	H2	7119	C4	9153	B1	9375	C3	9742	B1
3232	F2	3475	F5	4236	H2	7120	F1	9154	C1	9376	D5	9743	C1
3233	F2	3476	F5	4237	H2	7121	F1	9155	B1	9379	D4	9750	B3
3234	H2	3477	G5	4241	F2	7130	A5	9156	A2	9380	E4		
3235	H2	3478	G5	4246	F3	7137	B4	9157	A2	9381	F4		
3237	G2	3479	F5	4255	G4	7150	B3	9158	D3	9382	F4		

FL2 LED/Control

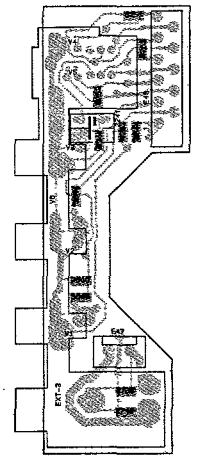


FL4 LED/Control

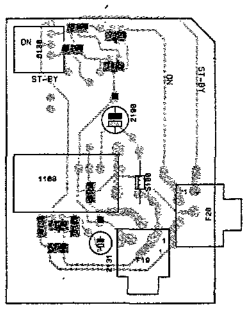
3148	A 1	3163	C 1	6131	C 1	6136	D 1	7134	B 1	9101	A 1	SK13	B 1
3149	A 1	3164	B 1	6132	C 1	6137	D 1	7135	B 1	R20	D 1	SK14	B 1
3150	A 1	3165	B 1	6133	C 1	7131	C 1	7136	C 1	R44	A 1		
3161	C 1	3166	C 1	6134	B 1	7132	C 1	7137	D 1	SK11	C 1		
3162	B 1	3167	C 1	6135	B 1	7133	B 1	9100	A 1	SK12	D 1		



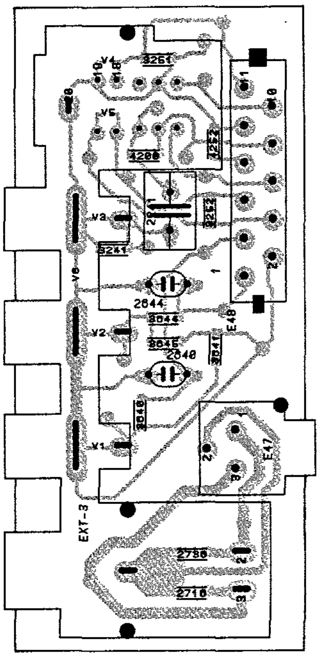
FL2 Front



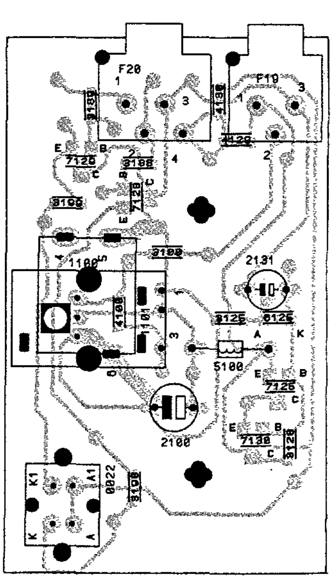
FL2 IR



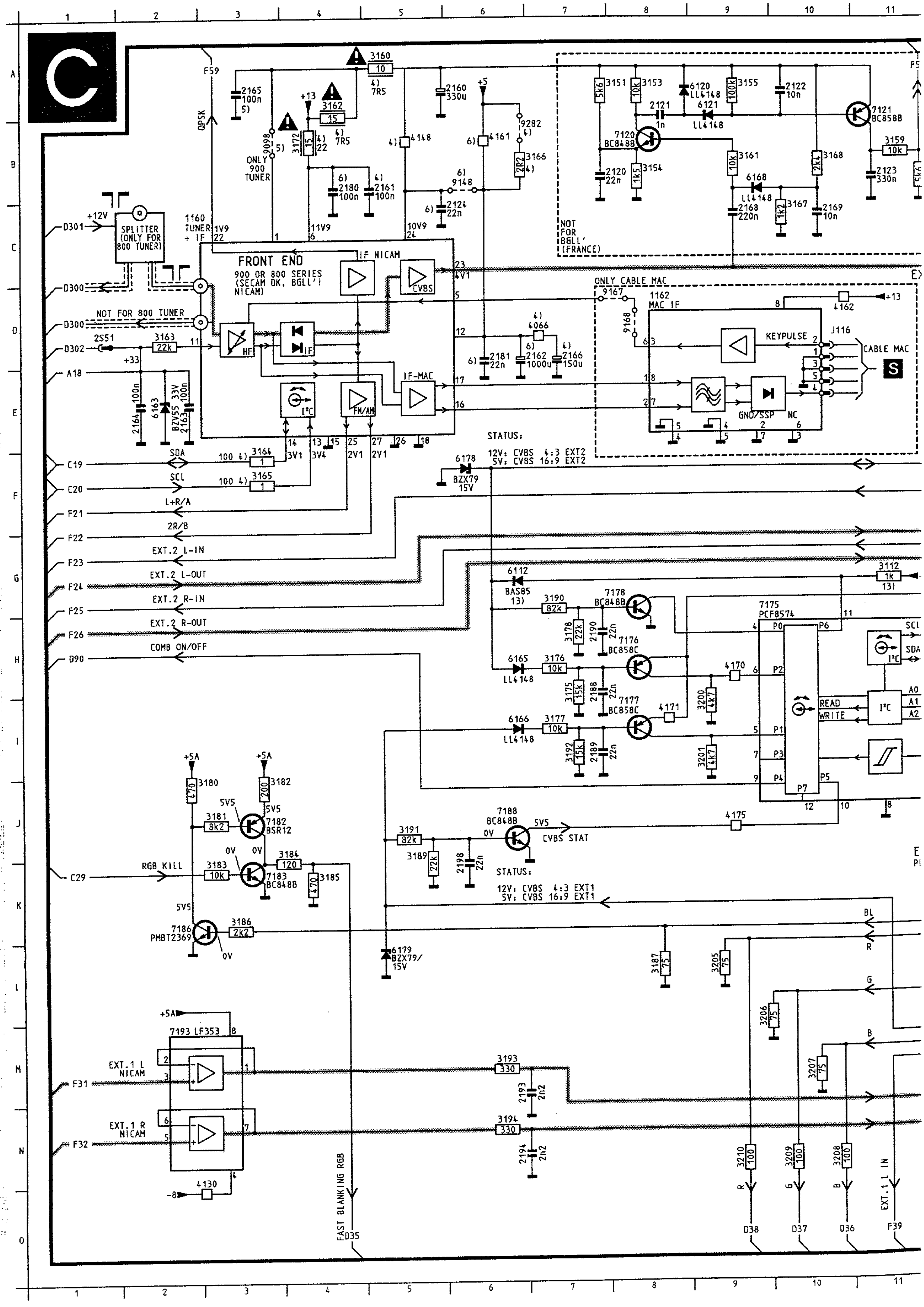
FL4 Front



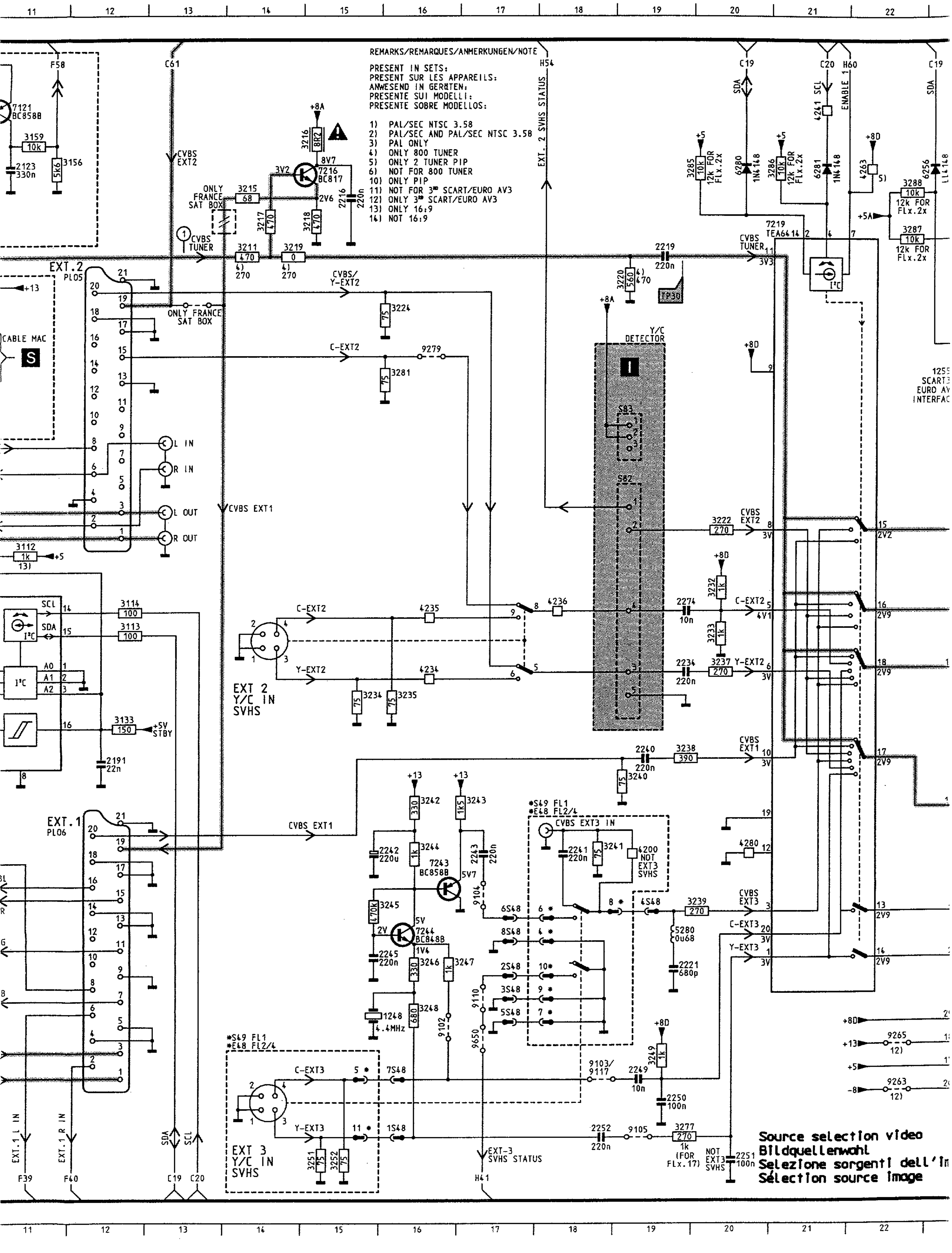
FL4 IR LED panel



Source selection / Quellenwahl /


C
F59
QPSK
3160
10
7R5
2165
100n
3162
15
+13
9098
ONLY 900 TUNER
3172
15
22
2180
100n
2161
100n
2160
330u
+5
4148
4161
9282
3166
2R2
9148
2124
22n
3151
5k6
3153
10k
6120
LL4148
3155
100k
2122
10n
2121
1n
6121
LL4148
7121
BC858B
7120
BC848B
2120
22n
3154
1k5
3161
10k
6168
LL4148
2168
220n
3167
1k2
3168
2k4
2169
10n
3159
10k
2123
330n
NOT FOR BGLL' (FRANCE)
+12V
D301
SPLITTER (ONLY FOR 800 TUNER)
1160 TUNER + IF
1V9
11V9
10V9
FRONT END
900 OR 800 SERIES (SECAM DK, BGLL'I NICAM)
IF NICAM
CVBS
4V1
HF
IF
IF-MAC
I²C
FM/AM
D300
NOT FOR 800 TUNER
D302
2S51
3163
22k
+33
A18
2164
100n
6163
BZV55 33V
2163
100n
ONLY CABLE MAC
9167
1162 MAC IF
9168
4162
+13
J116
KEYPULSE
CABLE MAC
S
GND/SSP
NC
4066
2181
22n
2162
1000u
2166
150u
STATUS:
12V: CVBS 4:3 EXT2
5V: CVBS 16:9 EXT2
C19
SDA
3164
3V1
3V4
2V1
2V1
C20
SCL
3165
6178
BZX79 15V
F21
L+R/A
F22
2R/B
F23
EXT.2 L-IN
F24
EXT.2 L-OUT
F25
EXT.2 R-IN
F26
EXT.2 R-OUT
H90
COMB ON/OFF
6112
BAS85
3112
1k
3190
82k
7178
BC848B
3178
22k
2190
22n
7176
BC858C
7175
PCF8574
SCL
SDA
I²C
6165
LL4148
3176
10k
3175
15k
2188
22n
4170
3200
4k7
6166
LL4148
3177
10k
3192
15k
2189
22n
7177
BC858C
4171
3201
4k7
READ
WRITE
A0
A1
A2
+5A
3180
470
3182
200
5V5
3181
8k2
7182
BSR12
0V
3184
120
3185
470
C29
RGB KILL
3183
10k
7183
BC848B
3191
82k
3189
22k
2198
22n
7188
BC848B
5V5
CVBS STAT
4175
STATUS:
12V: CVBS 4:3 EXT1
5V: CVBS 16:9 EXT1
7186
PMBT2369
3186
2k2
6179
BZX79/ 15V
3187
75
3205
75
BL
R
G
B
3206
75
3207
75
+5A
7193 LF353
EXT.1 L NICAM
F31
3193
330
2193
2n2
EXT.1 R NICAM
F32
3194
330
2194
2n2
4130
-8
FAST BLANKING RGB
D35
3210
100
3209
100
3208
100
D38
D37
D36
EXT.1 L IN
F39

Sélection de source

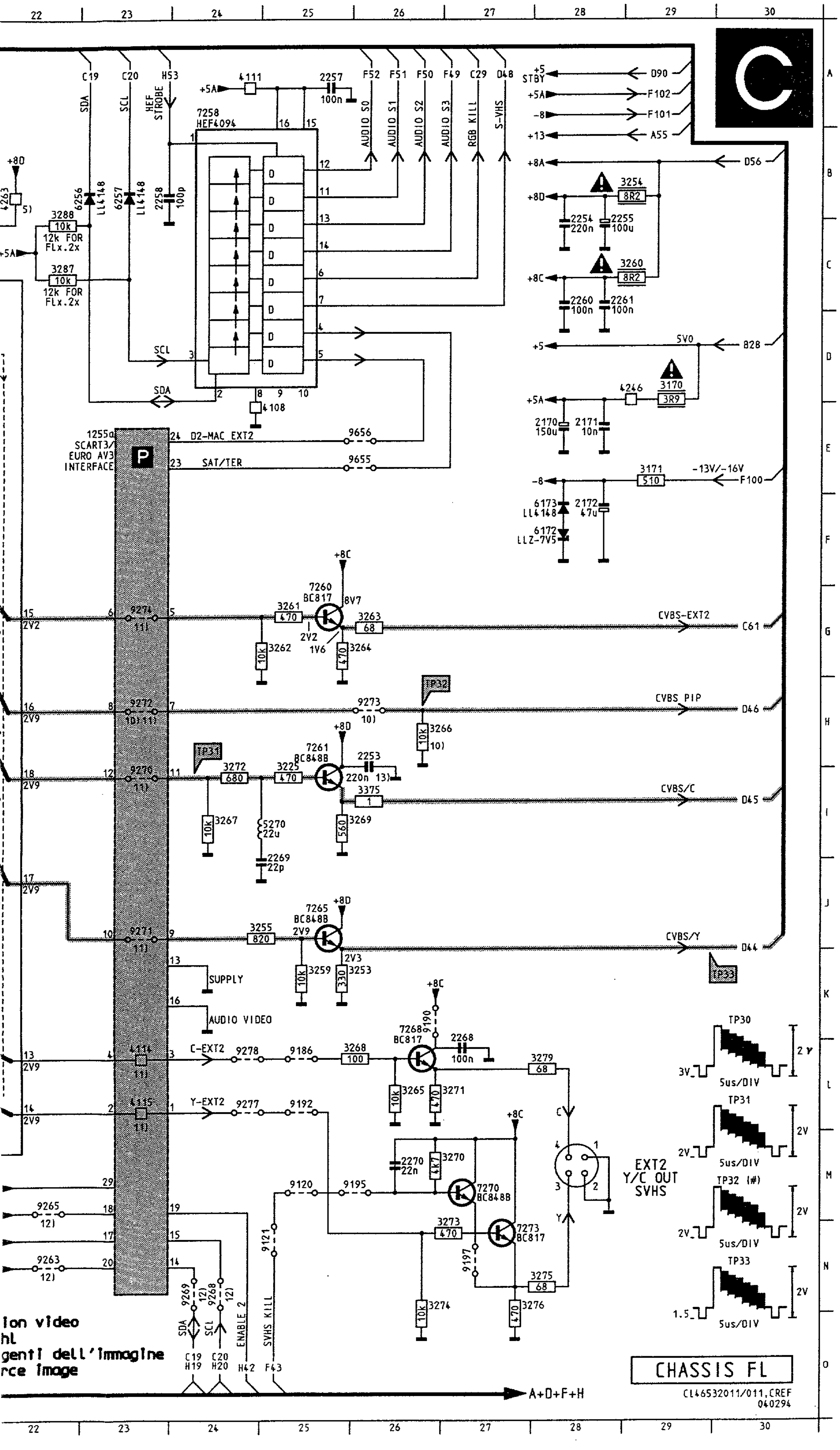

11
12
13
14
15
16
17
18
19
20
21
22
F58
C61
H54
C19
C20
H60
SDA
4241 SCL
ENABLE 1
7121
BC858B
3159
10k
2123
330n
5k6
3156
CVBS EXT2
+8A
3216
8R2
8V7
3V2
7216
BC817
2V6
2216
220n
ONLY FRANCE SAT BOX
3215
68
3217
470
3218
470
CVBS TUNER
3211
470
3219
0
4) 270
EXT. 2 SVHS STATUS
2219
220n
3220
560
4) 470
TP30
3285
10k
12k FOR FLx.2x
6280
1N4148
3286
6281
+5
+8D
4263
5)
6256
3288
10k
12k FOR FLx.2x
+5A
3287
7219
TEA6414
3V3
I²C
EXT.2
PL05
+13
CABLE MAC
S
CVBS/ Y-EXT2
3224
75
C-EXT2
9279
3281
75
Y/C DETECTOR
I
S83
S82
L IN
R IN
L OUT
R OUT
CVBS EXT1
3222
270
CVBS EXT2
3V
2V2
3232
1k
2274
10n
C-EXT2
4V1
3233
1k
2V9
3112
1k
13)
+5
SCL
SDA
3114
100
3113
100
A0
A1
A2
I²C
3133
150
+5V STBY
2191
22n
4236
4235
4234
Y-EXT2
2234
220n
3237
270
Y-EXT2
3234
75
3235
75
EXT 2 Y/C IN SVHS
1255 SCART EURO AV INTERFACE
EXT.1
PL06
CVBS EXT1
2240
220n
3238
390
CVBS EXT1
3240
75
+13
3242
330
3243
1k5
2242
220u
3244
1k
7243
BC858B
5V7
2243
220n
*S49 FL1
*E48 FL2/4
CVBS EXT3 IN
2241
220n
3241
75
4200
NOT EXT3 SVHS
9104
6S48
8S48
2S48
3S48
5S48
4S48
3239
270
CVBS EXT3
5280
0u68
2221
680p
C-EXT3
Y-EXT3
3245
470k
5V
2V
7244
BC848B
1V4
2245
220n
3246
330
3247
1k
1248
4.4MHz
3248
680
9110
9102
9650
4280
+8D
3249
1k
9103/ 9117
2249
10n
2250
100n
9265
+13
12)
+5
9263
-8
12)
*S49 FL1
*E48 FL2/4
C-EXT3
7S48
Y-EXT3
1S48
3251
75
3252
75
EXT 3 Y/C IN SVHS
2252
220n
9105
3277
270
1k (FOR FLx.17)
NOT EXT3 SVHS
2251
100n
EXT.1 L IN
EXT.1 R IN
F39
F40
SDA
SCL
C19
C20
EXT-3 SVHS STATUS
H41

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL/SEC NTSC 3.58
2) PAL/SEC AND PAL/SEC NTSC 3.58
3) PAL ONLY
4) ONLY 800 TUNER
5) ONLY 2 TUNER PIP
6) NOT FOR 800 TUNER
10) ONLY PIP
11) NOT FOR 3ᴿᴰ SCART/EURO AV3
12) ONLY 3ᴿᴰ SCART/EURO AV3
13) ONLY 16:9
14) NOT 16:9

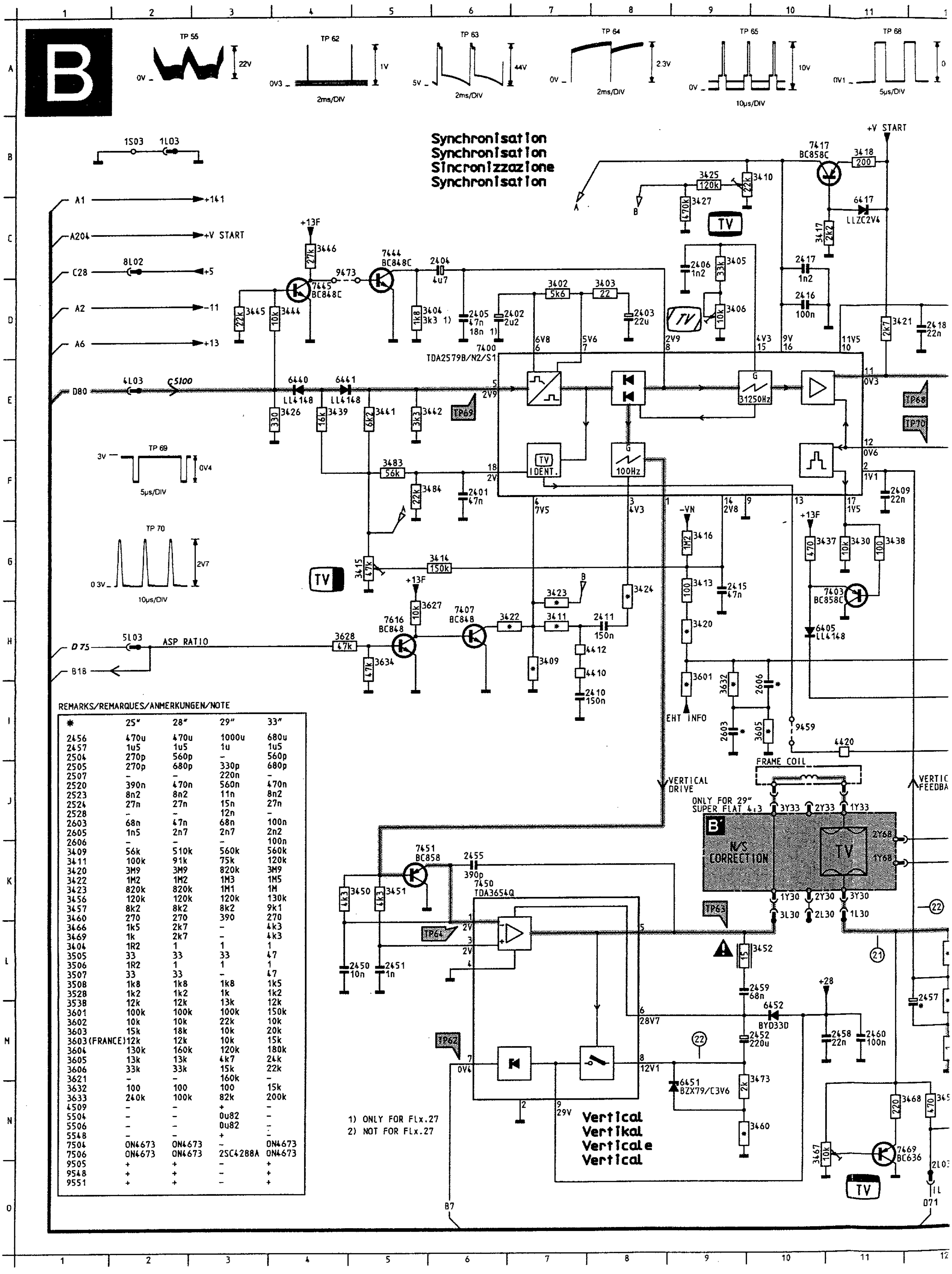
Source selection video
Bildquellenwahl
Selezione sorgenti dell'im
Sélection source image


C
SDA
SCL
HEF STROBE
7258 HEF4094
4111
2257 100n
AUDIO S0
AUDIO S1
AUDIO S2
AUDIO S3
RGB KILL
S-VHS
+5 STBY
D90
F102
F101
A55
D56
3254 8R2
2254 220n
2255 100u
3260 8R2
2260 100n
2261 100n
SV0
B28
4246
3170 3R9
2170 150u
2171 10n
3171 510
-13V/-16V
F100
6173 LL4148
6172 LLZ-7V5
2172 47u
1255a SCART3/ EURO AV3 INTERFACE
D2-MAC EXT2
SAT/TER
9656
9655
7260 BC817
CVBS-EXT2
C61
CVBS PIP
D46
TP32
TP31
7261 BC848B
CVBS/C
D45
7265 BC848B
CVBS/Y
D44
TP33
SUPPLY
AUDIO VIDEO
C-EXT2
Y-EXT2
7268 BC817
7270 BC848B
7273 BC817
EXT2 Y/C OUT SVHS
SVHS KILL
ENABLE 2
TP30
TP31
TP32 (#)
TP33
5us/DIV
CHASSIS FL
CL46532011/011.CREF 040294
A+D+F+H

ion video
hl
genti dell'immagine
rce image

1160	C 2	3237	I20	9192	L25
1162	D 8	3238	J19	9195	M26
1248	M16	3239	L20	9197	N27
1255	E23	3240	J19	9263	N22
2120	B 7	3241	K18	9265	M22
2121	A 8	3242	J16	9268	N24
2122	A10	3243	J17	9269	N24
2123	B11	3244	K16	9270	I23
2124	C 6	3245	L16	9271	J23
2160	A 6	3246	L16	9272	H23
2161	B 5	3247	L16	9273	H26
2162	D 7	3248	M16	9274	G23
2163	E 2	3249	N19	9277	L24
2164	E 2	3251	O15	9278	L24
2165	A 3	3252	O15	9279	E16
2166	D 7	3253	K25	9282	B 6
2168	C 9	3254	B29	9650	M17
2169	C10	3255	J25	9655	E26
2170	E28	3259	K25	9656	E26
2171	E28	3260	C29		
2172	F28	3261	G25		
2180	B 4	3262	G25		
2181	D 6	3263	G26		
2188	I 7	3264	G25		
2189	I 7	3265	L26		
2190	H 7	3266	H26		
2191	J12	3267	I24		
2193	M 6	3268	L26		
2194	N 6	3269	I25		
2198	K 6	3270	M27		
2216	C15	3271	L27		
2219	C19	3272	I24		
2221	L19	3273	N27		
2234	I19	3274	N26		
2240	J19	3275	N28		
2241	K18	3276	N27		
2242	K15	3277	O19		
2243	K17	3279	L28		
2245	L15	3281	E16		
2249	N19	3285	B19		
2250	N19	3286	B21		
2251	O20	3287	C22		
2252	O18	3288	B22		
2253	H26	3375	I26		
2254	C28	4066	D 7		
2255	C28	4108	E25		
2257	A25	4111	A24		
2258	B23	4114	L23		
2260	C28	4115	L23		
2261	C28	4130	N 3		
2268	L27	4148	B 5		
2269	J25	4161	B 6		
2270	M26	4162	D10		
2274	H19	4170	H 9		
3112	G11	4171	I 8		
3113	H12	4175	J 9		
3114	H12	4200	K19		
3133	I12	4234	I16		
3151	A 7	4235	H16		
3153	A 8	4236	H18		
3154	B 8	4241	B21		
3155	A 9	4246	D29		
3156	B11	4263	B22		
3159	B11	4280	K20		
3160	A 5	5270	I25		
3161	B 9	5280	L19		
3162	A 4	6112	G 6		
3163	D 2	6120	A 9		
3164	F 3	6121	A 9		
3165	F 3	6163	E 2		
3166	B 7	6165	H 6		
3167	C10	6166	I 6		
3168	B10	6168	B 9		
3170	D29	6172	F28		
3171	E29	6173	F28		
3172	B 4	6178	F 6		
3175	I 7	6179	L 5		
3176	H 7	6256	B23		
3177	I 7	6257	B23		
3178	H 7	6280	B20		
3180	I 2	6281	B21		
3181	J 3	7120	B 8		
3182	I 3	7121	B11		
3183	K 3	7175	H 9		
3184	J 4	7176	H 8		
3185	K 4	7177	I 8		
3186	K 3	7178	G 8		
3187	L 8	7182	J 3		
3189	J 5	7183	K 3		
3190	G 7	7186	K 2		
3191	J 5	7188	J 6		
3192	I 7	7193	M 2		
3193	M 6	7216	B15		
3194	N 6	7219	C20		
3200	I 9	7243	K16		
3201	I 9	7244	L16		
3205	L 9	7258	A24		
3206	L 9	7260	G25		
3207	M10	7261	H25		
3208	N10	7265	J25		
3209	N10	7268	K26		
3210	N 9	7270	M27		
3211	C14	7273	N27		
3215	C14	9098	B 3		
3216	B15	9102	M16		
3217	C14	9103	N18		
3218	C15	9104	K17		
3219	C14	9105	O19		
3220	D19	9110	M17		
3222	G20	9120	M25		
3224	D16	9121	N25		
3225	I25	9148	B 6		
3232	H20	9167	D 8		
3233	H20	9168	D 8		
3234	I15	9186	L25		
3235	I16	9190	K26		

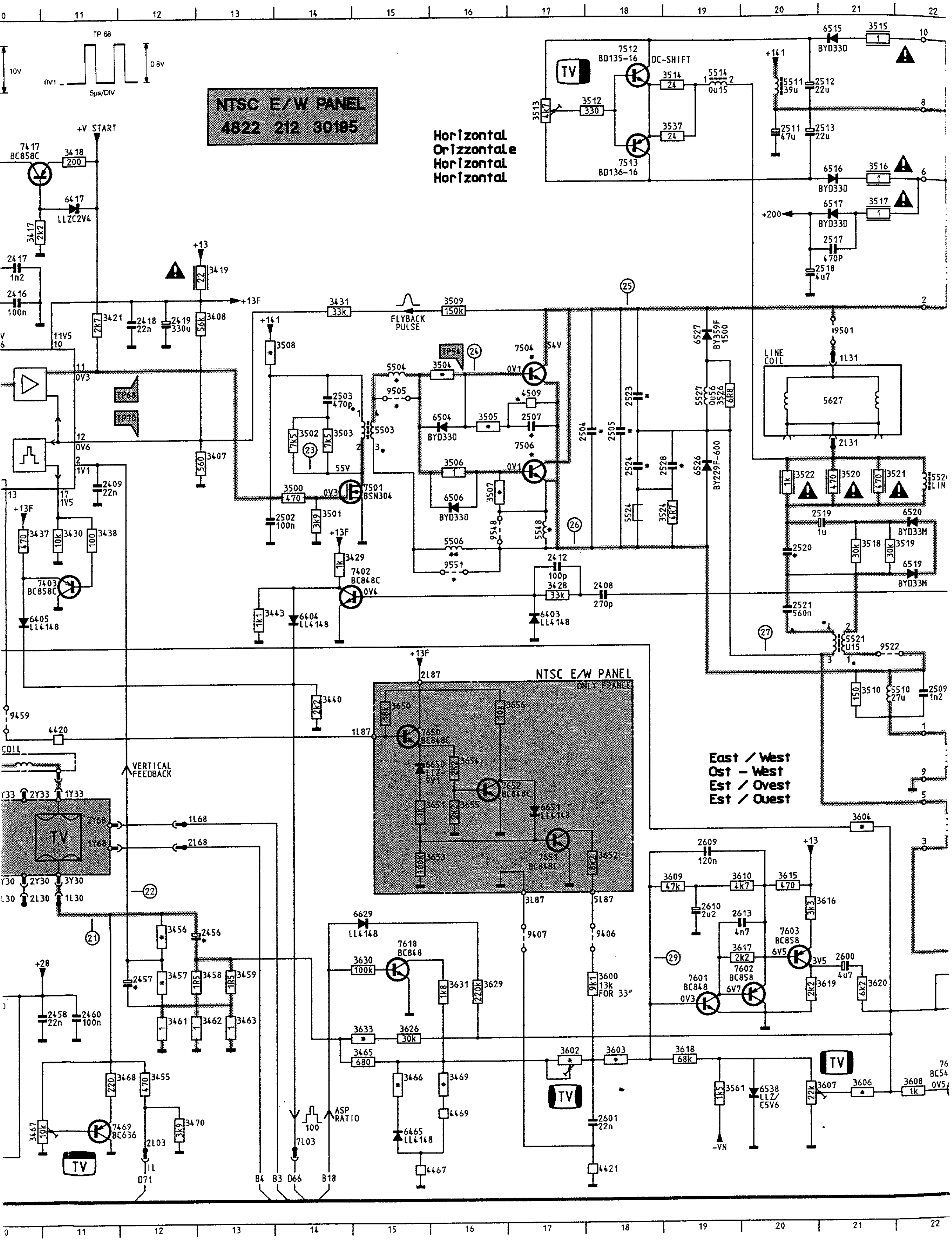
Synchronization / Synchronisierung / Synchronisation

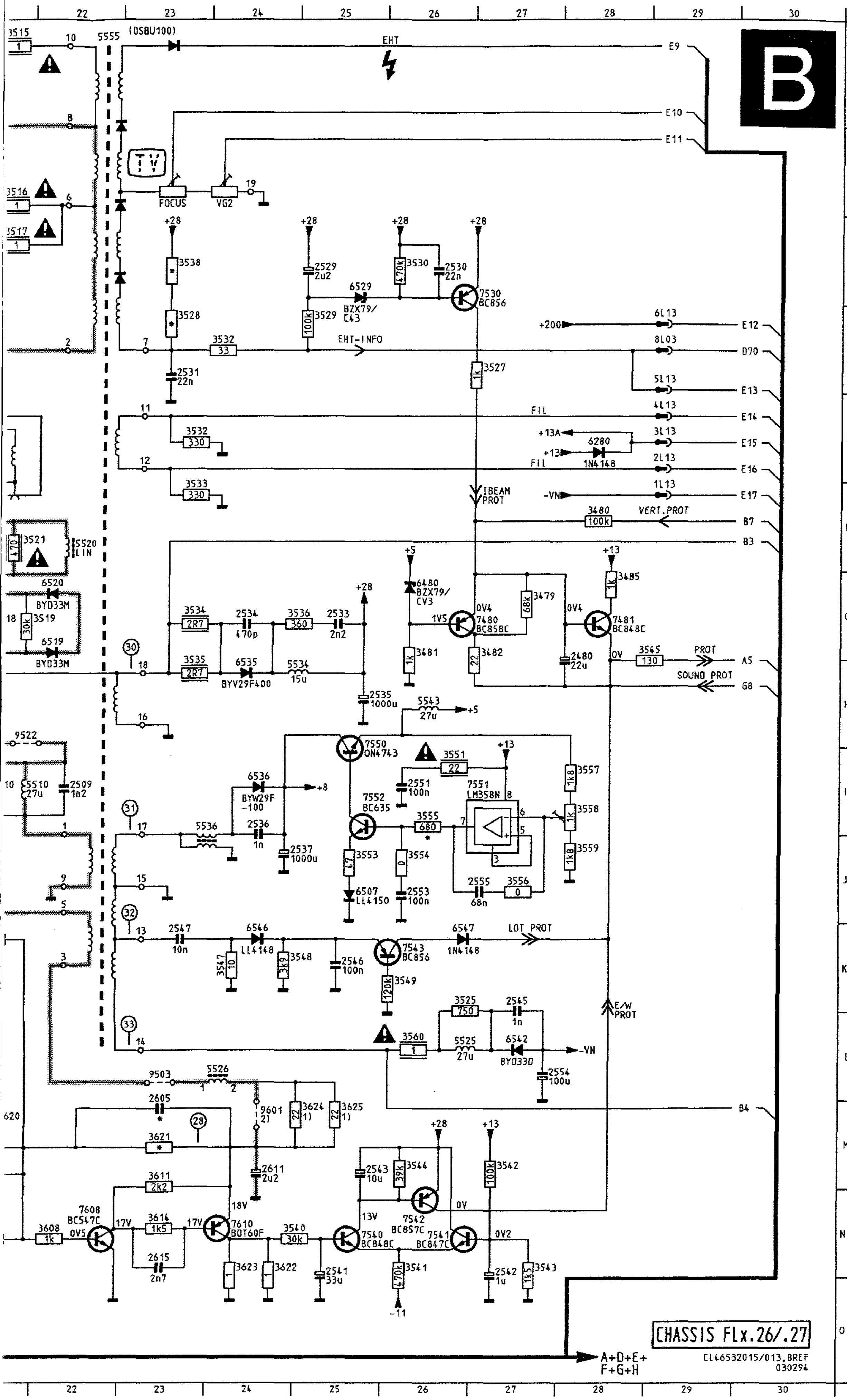

B
TP 55
22V
0V
TP 62
1V
0V3
2ms/DIV
TP 63
44V
5V
2ms/DIV
TP 64
2.3V
0V
2ms/DIV
TP 65
10V
0V
10µs/DIV
TP 68
0V1
5µs/DIV
Synchronisation
Synchronisation
Sincronizzazione
Synchronisation
1S03
1L03
A1
+141
A204
+V START
C28
8L02
+5
A2
-11
A6
+13
D80
4L03
C5100
+13F
3446
27k
7445
BC848C
9473
7444
BC848C
2404
4u7
3445
22k
3444
10k
3404
1k8
3k3 1)
2405
47n
18n 1)
2402
2u2
3402
5k6
3403
22
2403
22u
6V8
6
5V6
7
7400
TDA2579B/N2/S1
6440
LL4148
6441
LL4148
3426
330
3439
16k
3441
6k2
3442
3k3
TP69
2V9
5
31250Hz
100Hz
TV IDENT.
3483
56k
18
2V
3484
22k
2401
47n
TP 69
3V
0V4
5µs/DIV
TP 70
2V7
0 3V
10µs/DIV
3415
47k
3414
150k
TV
+13F
3627
10k
7616
BC848
7407
BC848
3422
3423
3411
3424
2411
150n
4412
4410
2410
150n
3409
D 75
5L03
ASP RATIO
3628
47k
3634
47k
B18
4
7V5
3
4V3
1
-VN
3416
1M2
14
2V8
9
3413
100
2415
47n
3420
3601
EHT INFO
3632
2606
2603
3605
9459
4420
13
+13F
3437
470
3430
10k
3438
100
7403
BC858C
6405
LL4148
17
1V5
2
1V1
2409
22n
12
0V6
11
0V3
TP68
TP70
3425
120k
3410
22k
3427
470k
A
B
TV
2406
1n2
3405
33k
3406
10k
TV
2V9
8
4V3
15
9V
16
11V5
10
2417
1n2
2416
100n
+V START
7417
BC858C
3418
200
6417
LLZC2V4
3417
2k2
3421
2k7
2418
22n
VERTICAL DRIVE
FRAME COIL
ONLY FOR 29" SUPER FLAT 4:3
3Y33
2Y33
1Y33
B
N/S CORRECTION
TV
2Y68
1Y68
1Y30
2Y30
3Y30
3L30
2L30
1L30
TP63
VERTIC FEEDBA
22
21
7451
BC858
2455
390p
7450
TDA3654Q
3450
4k3
3451
4k3
TP64
1
2V
3
2V
4
2450
10n
2451
1n
5
3452
15
2459
68n
6
28V7
6452
BYD33D
+28
2458
22n
2460
100n
2452
220u
2457
TP62
7
0V4
8
12V1
6451
BZX79/C3V6
3473
2k
3460
2
9
29V
Vertical
Vertikal
Verticale
Vertical
3468
220
3467
10k
7469
BC636
470
2L0
1L
D71
TV
B7
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

*	25"	28"	29"	33"
2456	470u	470u	1000u	680u
2457	1u5	1u5	1u	1u5
2504	270p	560p	-	560p
2505	270p	680p	330p	680p
2507	-	-	220n	-
2520	390n	470n	560n	470n
2523	8n2	8n2	11n	8n2
2524	27n	27n	15n	27n
2528	-	-	12n	-
2603	68n	47n	68n	100n
2605	1n5	2n7	2n7	2n2
2606	-	-	-	100n
3409	56k	510k	560k	560k
3411	100k	91k	75k	120k
3420	3M9	3M9	820k	3M9
3422	1M2	1M2	1M3	1M5
3423	820k	820k	1M1	1M
3456	120k	120k	120k	130k
3457	8k2	8k2	8k2	9k1
3460	270	270	390	270
3466	1k5	2k7	-	4k3
3469	1k	2k7	-	4k3
3404	1R2	1	1	1
3505	33	33	33	47
3506	1R2	1	1	1
3507	33	33	-	47
3508	1k8	1k8	1k8	1k5
3528	1k2	1k2	1k	1k2
3538	12k	12k	13k	12k
3601	100k	100k	100k	150k
3602	10k	10k	22k	10k
3603	15k	18k	10k	20k
3603 (FRANCE)	12k	12k	10k	15k
3604	130k	160k	120k	180k
3605	13k	13k	4k7	24k
3606	33k	33k	15k	22k
3621	-	-	160k	-
3632	100	100	100	15k
3633	240k	100k	82k	200k
4509	-	-	+	-
5504	-	-	0u82	-
5506	-	-	0u82	-
5548	-	-	+	-
7504	0N4673	0N4673	-	0N4673
7506	0N4673	0N4673	2SC4288A	0N4673
9505	+	+	-	+
9548	+	+	-	+
9551	+	+	-	+

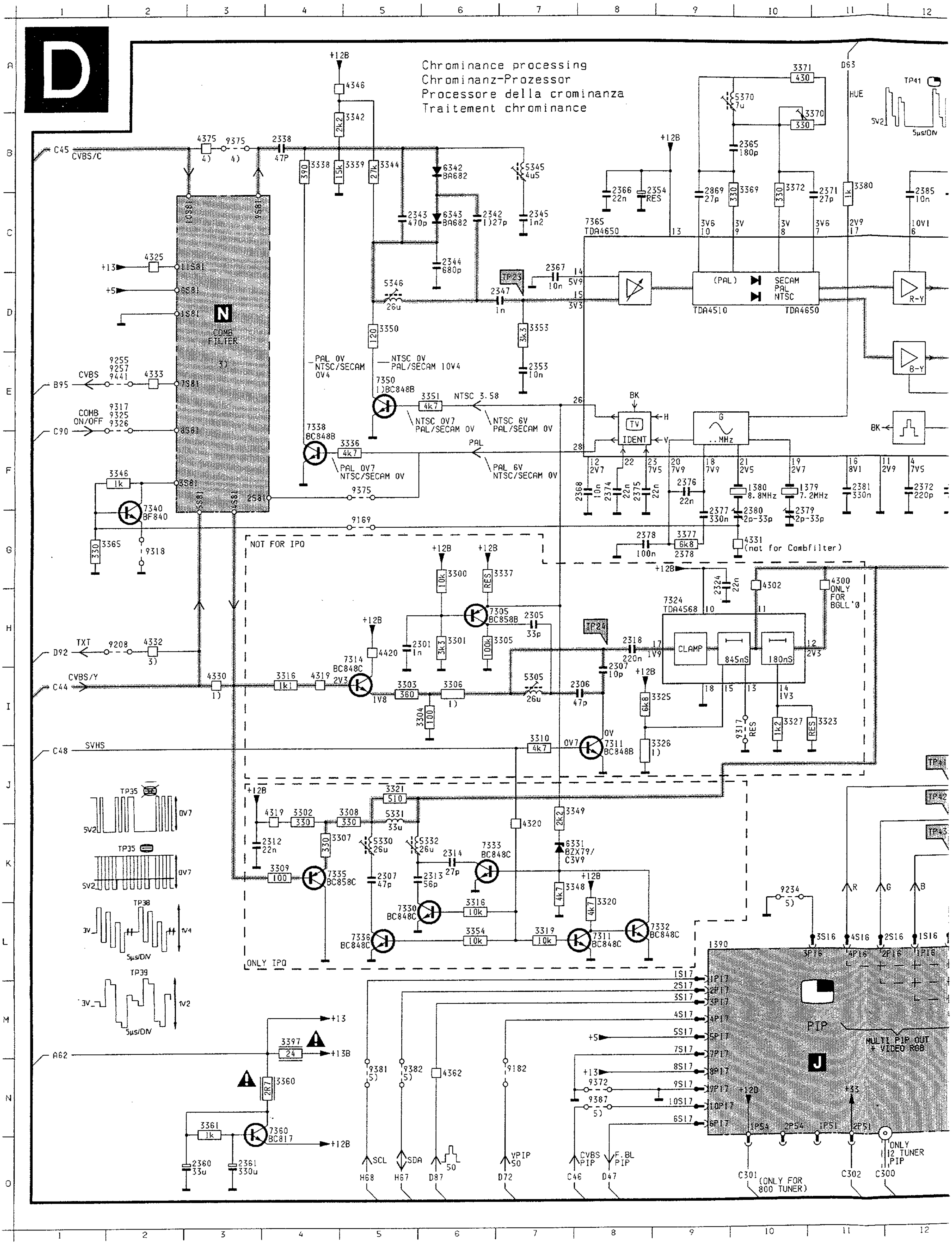
1) ONLY FOR FLx.27
2) NOT FOR FLx.27


NTSC E/W PANEL
4822 212 30195
Horizontal
Orizzontale
Horizontal
Horizontal
East / West
Ost - West
Est / Ovest
Est / Ouest
NTSC E/W PANEL
ONLY FRANCE
TP 68
10V
0V1
0.8V
5μs/DIV
+V START
7417 BC858C
3418 200
6417 LLZC2V4
3417 2K2
2417 1n2
2416 100n
+13
3419 22
+13F
3421 2K7
2418 22n
2419 330u
3408 56K
11V5
0V3
TP68
TP70
0V6
1V1
2409 22n
3407 560
+141
3508
3431 33k
FLYBACK PULSE
3509 150k
2503 470p
3502 7k5
3503 7k5
5503
55V
3500 470
7501 BSN304
3501 3K9
2502 100n
3429 1k
7402 BC848C
0V4
3443 1K1
6404 LL4148
5504
9505
3504
TP54
6504 BYD330
3505
2507
7504
54V
4509
7506
3506 1
6506 BYD330
3507
9548
5518
5506
9551
2412 100p
3428 33k
2408 270p
6403 LL4148
7512 BD135-16
DC-SHIFT
3513 4K7
3512 330
3514 24
5514 0u15
3537 24
7513 BD136-16
+141
5511 39u
2512 22u
2511 47u
2513 22u
6515 BYD330
3515 1
6516 BYD330
3516 1
6517 BYD330
3517 1
+200
2517 470P
2518 4u7
2504
2505
2523
2524
2528
5524
3524 4R7
6527 BY359F 1500
5527 0u56
3526 6R8
6526 BY229F-600
9501
LINE COIL
1L31
5627
2L31
3522 1K
3520 470
3521 470
5521 LINE
2519 1u
6520 BYD33M
2520
3518 30k
3519 30k
6519 BYD33M
2521 560n
5521 U15
9522
3510 150
5510 27u
2509 1n2
3437 470
3430 10k
3438 100
7403 BC858C
6405 LL4148
9459
4420
1L87
2L87
3440 2K2
3650 18K
7650 BC848C
6650 LLZ-9V1
3654 2K2
3656 10K
7652 BC848C
6651 LL4148
3651 1K
3655 2K2
3653 100K
7651 BC848C
3652 8K2
3L87
5L87
9407
9406
3600 9K1 13K FOR 33"
2601 22n
4421
VERTICAL FEEDBACK
COIL
2Y68
1Y68
1L68
2L68
2Y33
1Y33
2Y30
3Y30
2L30
1L30
3456
2456
2457
3457
3458 1R5
3459 1R5
3461 1
3462 1
3463 1
+28
2458 22n
2460 100n
3468 220
3455 470
3467 10K
7469 BC636
3470 3K9
2L03
1L
D71
6629 LL4148
7618 BC848
3630 100k
3631 1K8
3629 220K
3633
3626 30k
3465 680
3466
3469
4469
6465 LL4148
4467
100
7L03
ASP RATIO
B4
B3
D66
B18
3602
3603
3618 68K
3561 1K5
6538 LLZ/C5V6
-VN
3604
2609 120n
+13
3609 47k
3610 4k7
3615 470
2610 2u2
2613 4n7
3616 3K3
3617 2K2
7603 BC858
6V5
3V5
7602 BC858
6V7
7601 BC848
0V3
2600 4u7
3619 2K2
3620 6K2
3607 22K
3606
3608 1k
TV
21
22
23
24
25
26
27
29
10
11
12
13
14
15
16
17
18
19
20
21
22

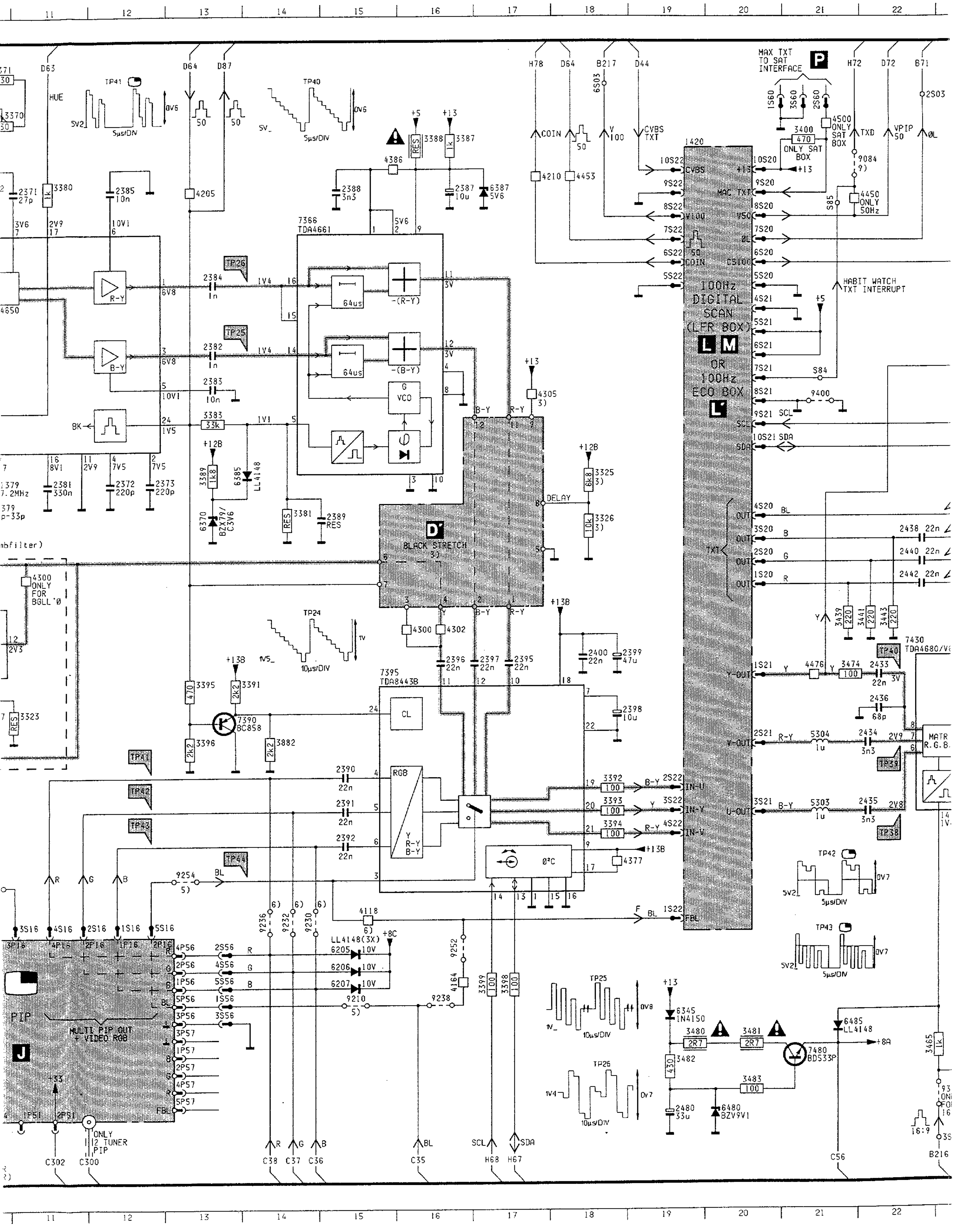

B
22 23 24 25 26 27 28 29 30
3515 10 5555 (DSBU100)
EHT
E9
E10
E11
8
3516 6
3517
TV
FOCUS
VG2
19
+28
3538
3528
2
7
3532 33
2531 22n
2529 2u2
6529 BZX79/C43
100k 3529
470k 3530
2530 22n
7530 BC856
EHT-INFO
3527 1k
+200
6L13
8L03
5L13
E12
D70
E13
11
3532 330
12
3533 330
FIL
4L13
E14
+13A
3L13
6280 1N4148
E15
+13
2L13
E16
1L13
-VN
E17
IBEAM PROT
3480 100k
VERT.PROT
B7
B3
3521 470
5520 LIN
6520 BYD33M
18 3519 30k
6519 BYD33M
+28
+5
6480 BZX79/CV3
30
18
3534 2R7
2534 470p
3536 360
2533 2n2
3535 2R7
6535 BYV29F400
5534 15u
2535 1000u
1V5
0V4
7480 BC858C
68k 3479
0V4
7481 BC848C
3485 1k
3481 1k
3482 22
2480 22u
0V
3545 130
PROT
A5
SOUND PROT
G8
5543 27u
+5
16
9522
10 5510 27u
2509 1n2
7550 ON4743
3551 22
+13
2551 100n
6536 BYW29F -100
+8
7551 LM358N
7552 BC635
31
17
5536
2536 1n
2537 1000u
3555 680
3554 0
3553 47
6507 LL4150
2553 100n
2555 68n
3556 0
3557 1k8
3558 1k
3559 1k8
1
9
15
5
32
13
2547 10n
6546 LL4148
3547 10
3548 3k9
2546 100n
7543 BC856
3549 120k
6547 1N4148
LOT PROT
3
E/W PROT
3525 750
2545 1n
33
14
3560 1
5525 27u
6542 BYD33D
-VN
2554 100u
9503
5526
9601 2)
3624 22 1)
3625 22 1)
620
2605
28
3621
B4
+28
+13
2543 10u
3544 39k
3542 100k
3611 2k2
18V
7542 BC857C
0V
7608 BC547C
3608 1k
0V5
17V
3614 1k5
17V
7610 BDT60F
3540 30k
13V
7540 BC848C
7541 BC847C
0V2
2615 2n7
3623 1
3622 1
2541 33u
3541 470k
-11
2542 1u
3543 1k5
2611 2u2
A+D+E+F+G+H
CHASSIS FLx.26/.27
CL46532015/013.BREF 030294

2401	F 6	3458	L13	4410	H 7
2402	D 6	3459	L13	4412	H 7
2403	D 8	3460	N10	4420	I11
2404	C 6	3461	M12	4421	O18
2405	D 6	3462	M13	4467	O15
2406	C 9	3463	M13	4469	N16
2408	H18	3465	N15	4509	E17
2409	F11	3466	N15	5503	F15
2410	I 7	3467	N10	5504	E15
2411	H 8	3468	N11	5506	G16
2412	G17	3469	N16	5510	I21
2415	G 9	3470	N12	5511	A20
2416	D10	3473	M10	5514	A19
2417	C10	3479	G27	5520	F22
2418	D12	3480	F28	5521	H21
2419	D12	3481	G26	5524	G18
2450	L 5	3482	G27	5525	L26
2451	L 5	3483	F 5	5526	L24
2452	M10	3484	F 5	5527	E19
2455	K 6	3485	F28	5534	H25
2456	L13	3500	F14	5536	I23
2457	M12	3501	G14	5543	H26
2458	M11	3502	F14	5548	G17
2459	L10	3503	F14	5555	A22
2460	M11	3504	E16	5627	E21
2480	G28	3505	E16	6280	E28
2502	G14	3506	F16	6403	H17
2503	E14	3507	F16	6404	H14
2504	F18	3508	D14	6405	H10
2505	F18	3509	D16	6417	C11
2507	E17	3510	I21	6440	E 4
2509	I22	3512	A18	6441	E 4
2511	B20	3513	B17	6451	N 9
2512	A20	3514	A19	6452	M10
2513	B20	3515	A21	6465	O15
2517	C21	3516	B21	6480	G26
2518	D20	3517	C21	6504	E16
2519	G21	3518	G21	6506	F16
2520	G20	3519	G21	6507	J25
2521	H20	3520	F21	6515	A21
2523	E18	3521	F21	6516	B21
2524	F18	3522	F20	6517	C21
2528	F19	3524	G19	6519	G22
2529	C25	3525	K26	6520	G22
2530	C26	3526	E19	6526	F19
2531	D23	3527	D27	6527	D19
2533	G25	3528	D23	6529	C25
2534	G24	3529	D25	6535	H24
2535	H25	3530	C26	6536	I24
2536	I24	3532	E23	6538	N20
2537	J24	3532	D24	6542	L27
2541	N25	3533	F23	6546	K24
2542	N27	3534	G23	6547	K26
2543	M25	3535	H23	6629	L15
2545	K27	3536	G25	6650	J15
2546	K25	3537	B19	6651	J17
2547	K23	3538	C23	7400	D 6
2551	I26	3540	N25	7402	G14
2553	J26	3541	N26	7403	G11
2554	L27	3542	M27	7407	H 6
2555	J27	3543	N27	7417	B10
2600	L21	3544	M26	7444	C 5
2601	N18	3545	G29	7445	D 4
2603	I 9	3547	K24	7450	K 6
2605	M23	3548	K24	7451	K 5
2606	I10	3549	K26	7469	N11
2609	K19	3551	I26	7480	G27
2610	L19	3553	J25	7481	G28
2611	M24	3554	J26	7501	F15
2613	L20	3555	I26	7504	E17
2615	N23	3556	J27	7506	F17
3402	D 7	3557	I28	7512	A18
3403	D 8	3558	I28	7513	B18
3404	D 5	3559	J28	7530	C27
3405	C 9	3560	L26	7540	N25
3406	D 9	3561	N19	7541	N26
3407	F13	3600	L18	7542	N26
3408	D13	3601	H 9	7543	K26
3409	H 7	3602	N17	7550	I25
3410	B10	3603	N18	7551	I26
3411	H 7	3604	K21	7552	I25
3413	G 9	3605	I10	7601	M19
3414	G 6	3606	N21	7602	M20
3415	G 5	3607	N20	7603	L20
3416	G 9	3608	N22	7608	N22
3417	C10	3609	K19	7610	N24
3418	B11	3610	K20	7616	H 5
3419	C13	3611	M23	7618	L15
3420	H 9	3614	N23	7650	J15
3421	D11	3615	K20	7651	K17
3422	H 7	3616	L20	7652	J16
3423	G 7	3617	L20	9406	L18
3424	G 8	3618	N19	9407	L17
3425	B 9	3619	M20	9459	I10
3426	E 4	3620	M21	9473	C 4
3427	C 9	3621	M23	9501	D21
3428	H17	3622	N24	9503	L23
3429	G14	3623	N24	9505	E15
3430	G11	3624	M25	9522	H21
3431	D14	3625	M25	9548	G16
3437	G10	3626	M15	9551	G16
3438	G11	3627	H 5	9601	M24
3439	E 4	3628	H 4		
3440	I14	3629	M16		
3441	E 5	3630	L15		
3442	E 5	3631	M16		
3443	H13	3632	I 9		
3444	D 4	3633	M15		
3445	D 3	3634	H 5		
3446	C 4	3650	I15		
3450	K 5	3651	J15		
3451	K 5	3652	K18		
3452	L10	3653	K15		
3455	N12	3654	J16		
3456	L12	3655	J16		
3457	L12	3656	I16		

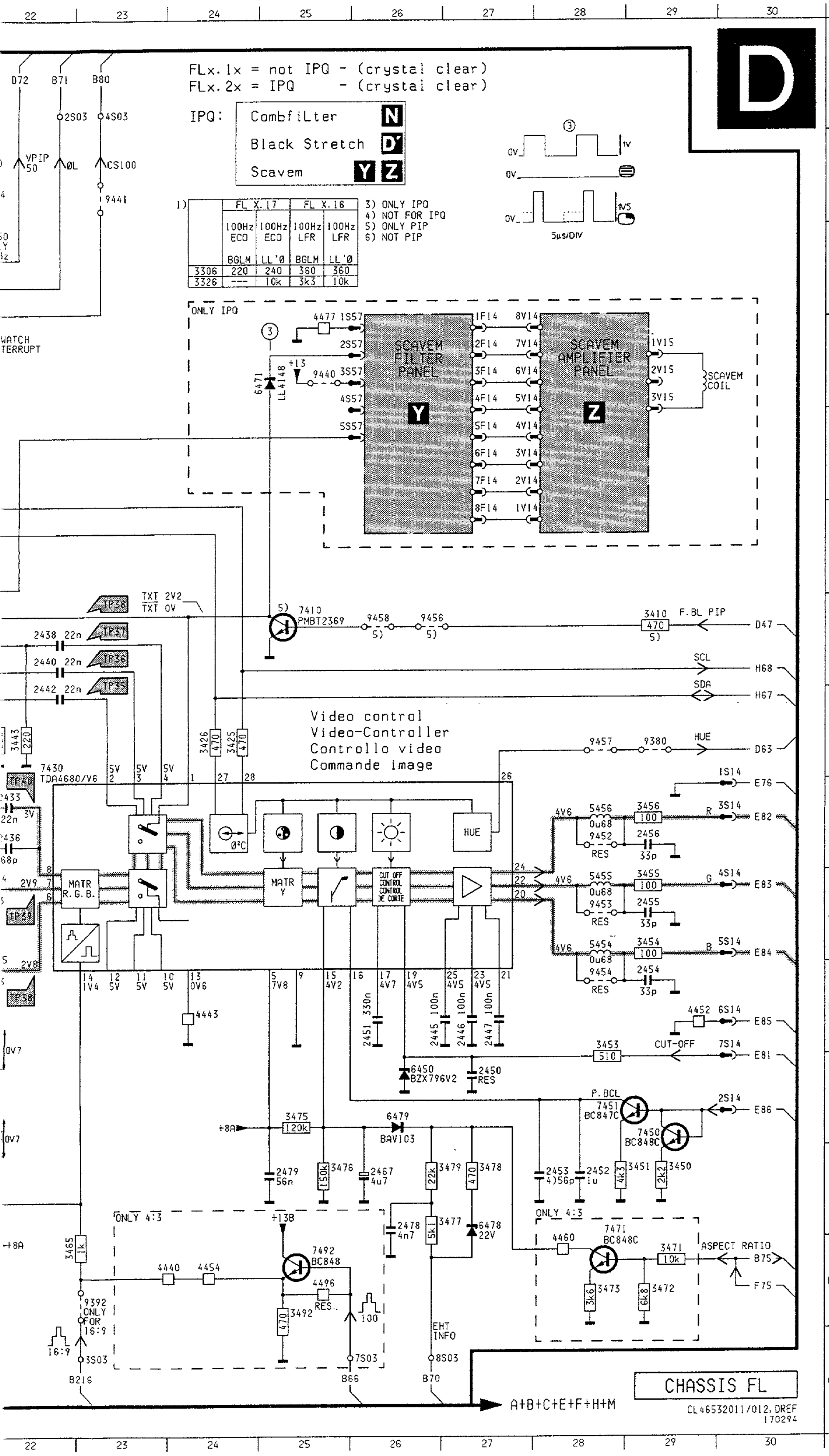
Video processing / Video Verarbeitung / Trai


D
Chrominance processing
Chrominanz-Prozessor
Processore della crominanza
Traitement chrominance
C45 CVBS/C
B95 CVBS
C90 COMB ON/OFF
D92 TXT
C44 CVBS/Y
C48 SVHS
A62
N COMB FILTER
7365 TDA4650
TDA4510
(PAL) SECAM PAL NTSC
R-Y
B-Y
TV IDENT
..MHz
7324 TDA4568
CLAMP
845nS
180nS
NOT FOR IPQ
ONLY IPQ
1390
PIP
J
MULTI PIP OUT + VIDEO RGB
1380 8.8MHz
1379 7.2MHz
4331 (not for Combfilter)
4300 ONLY FOR BGLL'0
PAL 0V NTSC/SECAM 0V4
NTSC 0V PAL/SECAM 10V4
NTSC 3.58
PAL
HUE
TP23
TP24
TP35
TP38
TP39
TP41
5µs/DIV
H68 SCL
H67 SDA
D87
D72 VPIP
C46 CVBS PIP
D47 F.BL PIP
C301 (ONLY FOR 800 TUNER)
C302
C300 ONLY I2 TUNER PIP
7360 BC817
3397 24
3360 2R7
+12B
+13B
+13
+5
R G B

9 Traitement vidéo



11
12
13
14
15
16
17
18
19
20
21
22
D63
HUE
TP41
5V2
5µs/DIV
0V6
D64
D87
50
TP40
SV_
5µs/DIV
0V6
H78
D64
B217
D44
6S03
COIN
50
V 100
CVBS TXT
MAX TXT TO SAT INTERFACE
P
1S60
3S60
2S60
4500 ONLY SAT BOX
3400 470 ONLY SAT BOX
+13
TXD
H72
D72
B71
2S03
VPIP 50
0L
9084 9)
4450 ONLY 50Hz
S85
1420
10S22 CVBS
+13
10S20
9S22
MAC TXT
9S20
8S22 V100
VS0
8S20
7S22
0L
7S20
6S22 COIN
CS100
6S20
5S22
5S20
100Hz DIGITAL SCAN (LFR BOX)
L M
OR
100Hz ECO BOX
L'
4S21
5S21
6S21
7S21
8S21
9S21
SCL
10S21 SDA
SDA
+5
HABIT WATCH TXT INTERRUPT
S84
9400
4210
4453
2371 27p
3380 1k
2385 10n
4205
3V6 7
2V9 17
10V1 6
+5
+13
3388 RES
3387 1k
4386
2388 3n3
2387 10u
6387 5V6
7366 TDA4661
5V6
1 2 9
TP26
2384 1n
1V4
16
64us
-(R-Y)
11 3V
R-Y
6V8
4850
15
TP25
2382 1n
1V4
14
64us
-(B-Y)
12 3V
B-Y
6V8
2383 10n
5 10V1
G VCO
8
4
BK
3383 33k
1V1
24 1V5
5
B-Y
R-Y
12 11 9
+13
4305 3)
+12B
3325 6k8 3)
3326 10k 3)
DELAY
8
16 8V1
11 2V9
4 7V5
2 7V5
3
10
2381 330n
2372 220p
2373 220p
379 7.2MHz
379 p-33p
mbfilter)
+12B
3389 1k8
6385 LL4148
6370 BZX79/C3V6
3381 RES
2389 RES
D'
BLACK STRETCH 3)
6
7
5
3
4
2
1
Y
B-Y
R-Y
4300 ONLY FOR BGLL'0
12 2V3
4300
4302
TP24
1V5_
10µs/DIV
1V
+13B
2396 22n
2397 22n
2395 22n
2400 22n
2399 47u
7395 TDA8443B
11 12 10 18
+13B
3391 2k2
3395 470
7390 BC858
3396 2k2
3882 2k2
3323 RES
24 CL
7
2398 10u
22
TP41
TP42
TP43
TP44
2390 22n
2391 22n
2392 22n
4 5 6 3
RGB
Y R-Y B-Y
19 3392 100 B-Y 2S22 IN-U
20 3393 100 Y 3S22 IN-Y
21 3394 100 R-Y 4S22 IN-V
9 +13B
17 4377
0°C
14 13 1 15 16
R G B
9254 5)
BL
4118 6)
F BL 1S22 FBL
+8C
LL4148(3X)
6205 10V
6206 10V
6207 10V
9236 6)
9232 6)
9230 6)
9252
4164
9210 5)
9238
3399 100
3398 100
3S16 4S16 2S16 1S16 5S16
3P16 4P16 2P16 1P16 2P16
4P56 2S56 R
2P56 4S56 G
1P56 5S56 B
5P56 1S56
3P56 3S56
3P57
1P57
2P57
4P57
5P57
PIP
MULTI PIP OUT + VIDEO RGB
J
33
1P51 2P51
ONLY 12 TUNER PIP
C302 C300
R G B
C38 C37 C36
BL
C35
SCL
SDA
H68 H67
TXT
4S20 OUT BL
3S20 OUT B
2S20 OUT G
1S20 OUT R
2438 22n
2440 22n
2442 22n
3439 220
3441 220
3443 220
7430 TDA4680/V
TP40
1S21 Y-OUT
Y
4476
3474 100
2433 22n
3V
2436 68p
2S21 V-OUT R-Y
5304 1u
2434 3n3
2V9
MATR R.G.B.
TP39
3S21 U-OUT B-Y
5303 1u
2435 3n3
2V8
TP38
TP42
5V2
5µs/DIV
0V7
TP43
5V2
5µs/DIV
0V7
TP25
1V_
10µs/DIV
0V8
TP26
1V4
10µs/DIV
0V7
+13
6345 1N4150
3480 2R7
3481 2R7
3482 430
3483 100
7480 BD533P
+8A
2480 33u
6480 BZV9V1
6485 LL4148
3465 1k
C56
16:9
B216


22
23
24
25
26
27
28
29
30
D
D72
B71
B80
2S03
4S03
VPIP 50
ØL
CS100
9441
WATCH
TERRUPT
IPQ:
Combfilter N
Black Stretch D'
Scavem Y Z
③
0V
1V
1V5
5µs/DIV
ONLY IPQ
4477
1S57
2S57
3S57
4S57
5S57
+13
9440
6471
LL4148
SCAVEM FILTER PANEL
Y
1F14
2F14
3F14
4F14
5F14
6F14
7F14
8F14
8V14
7V14
6V14
5V14
4V14
3V14
2V14
1V14
SCAVEM AMPLIFIER PANEL
Z
1V15
2V15
3V15
SCAVEM COIL
TXT 2V2
TXT 0V
TP38
TP37
TP36
TP35
TP40
TP39
2438 22n
2440 22n
2442 22n
5)
7410
PMBT2369
9458
9456
3410
470
F.BL PIP
D47
SCL
H68
SDA
H67
3443
220
3426
470
3425
470
9457
9380
HUE
D63
7430
TDA4680/V6
5V
1S14
E76
MATR R.G.B.
MATR Y
CUT OFF CONTROL CONTROL DE CORTE
HUE
0°C
4V6
5456
0u68
9452
RES
3456
100
2456
33p
R
3S14
E82
5455
9453
3455
2455
G
4S14
E83
5454
9454
3454
2454
B
5S14
E84
4443
2451 330n
2445 100n
2446 100n
2447 100n
4452
6S14
E85
3453
510
CUT-OFF
7S14
E81
6450
BZX79C6V2
2450
RES
P.BCL
7451
BC847C
7450
BC848C
2S14
E86
+8A
3475
120k
6479
BAV103
2479 56n
3476 150k
2467 4u7
3479 22k
3478 470
2453 4)56p
2452 1u
3451 4k3
3450 2k2
ONLY 4:3
+13B
7492
BC848
4440
4454
4496
RES.
3492 470
100
2478 4n7
3477 5k1
6478 22V
7471
BC848C
4460
3471
10k
ASPECT RATIO
B7S
F75
3473 3k6
3472 6k8
3465 1k
9392 ONLY FOR 16:9
16:9
3S03
7S03
8S03
B216
B66
B70
EHT INFO
A+B+C+E+F+H+M
0V7
2V9
2V8
3V
22n
68p

FLx.1x = not IPQ - (crystal clear)
FLx.2x = IPQ - (crystal clear)

1)

	FL X.17		FL X.16	
	100Hz ECO BGLM	100Hz ECO LL'0	100Hz LFR BGLM	100Hz LFR LL'0
3306	220	240	360	360
3326	---	10k	3k3	10k

3) ONLY IPQ
4) NOT FOR IPQ
5) ONLY PIP
6) NOT PIP

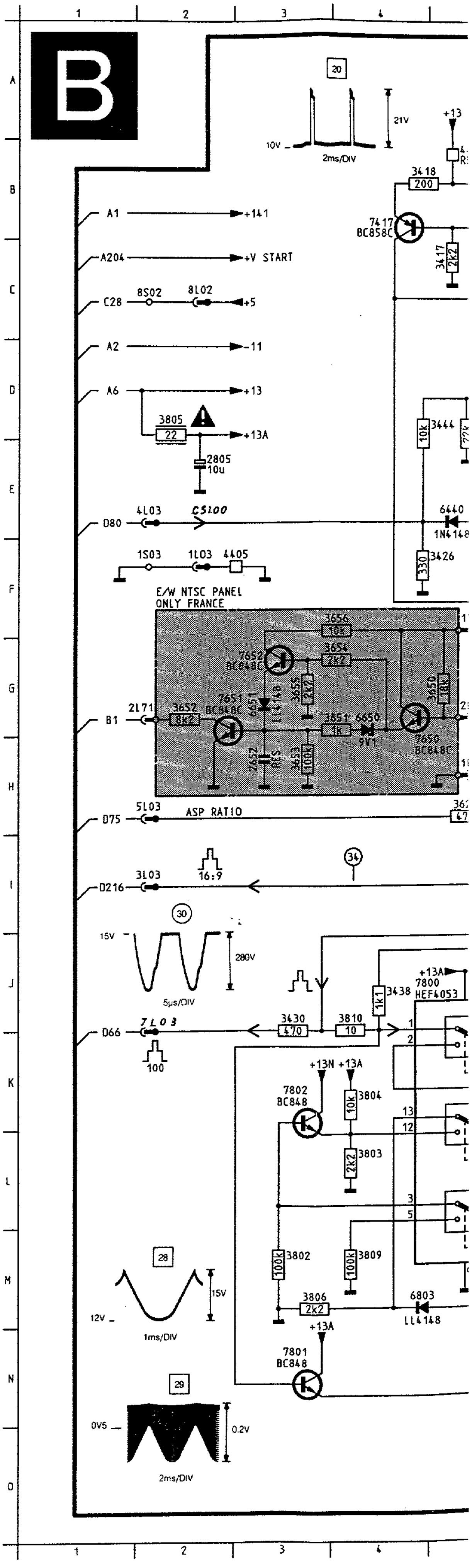
Video control
Video-Controller
Controllo video
Commande image

CHASSIS FL

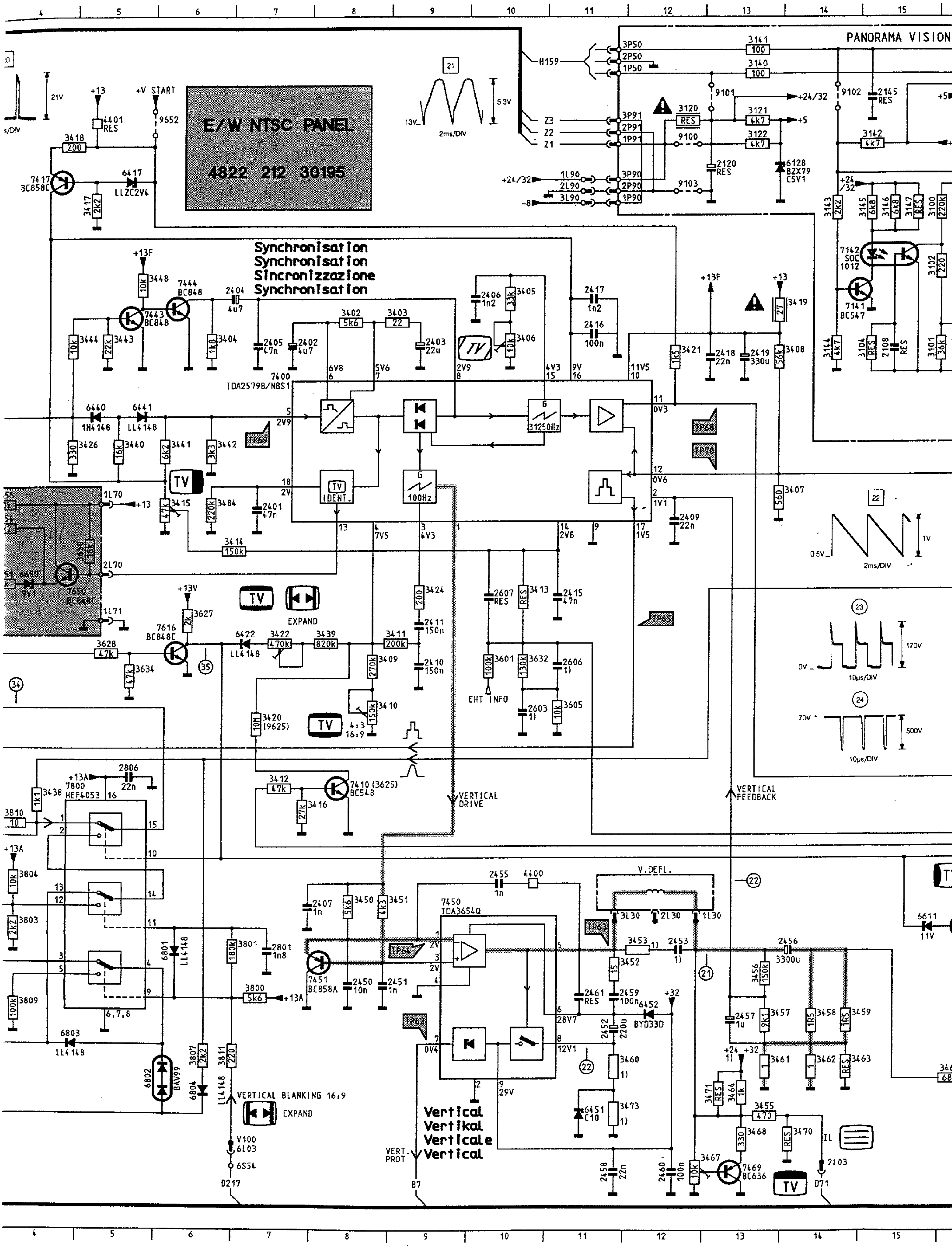
CL 46532011/012. DREF
170294

1379	F10
1380	F10
1390	L 9
1420	B19
2301	H 5
2305	H 7
2306	I 8
2307	I 8
2307	K 5
2312	K 3
2313	K 6
2314	K 6
2318	H 8
2324	H 9
2338	B 4
2342	C 6
2343	C 5
2344	C 6
2345	C 7
2347	D 7
2353	E 7
2354	C 8
2360	O 3
2361	O 3
2365	B10
2366	C 8
2367	D 7
2368	F 8
2371	C11
2372	F12
2373	F12
2375	F 8
2376	F 9
2377	G 9
2378	G 8
2378	G 9
2379	G10
2380	G10
2381	F11
2382	E13
2383	E13
2384	D13
2385	C12
2387	C16
2388	C15
2389	G15
2390	J15
2391	J15
2392	K15
2395	I17
2396	I16
2397	I17
2398	I18
2399	I18
2400	I18
2433	I22
2434	J22
2435	J22
2436	I22
2438	G22
2440	G22
2442	H22
2445	K26
2446	K27
2447	K27
2450	L27
2451	K26
2452	M28
2453	M28
2454	K29
2455	J29
2456	I29
2467	M26
2478	M26
2479	M25
2480	N19
2869	C 9
3300	G 6
3301	H 6
3302	J 4
3303	I 5
3304	I 6
3305	H 6
3306	I 6
3307	K 4
3308	J 5
3309	K 4
3310	I 7
3316	I 4
3316	L 6
3319	L 7
3320	K 8
3321	J 5
3323	I11
3325	F18
3325	I 8
3326	G18
3326	I 8
3327	I10
3336	F 5
3337	G 6
3338	B 4
3339	B 5
3342	B 5
3344	B 5
3346	F 2
3348	K 7
3349	J 7
3350	D 5
3351	E 6
3353	D 7
3354	L 6
3360	N 4
3361	N 3
3365	G 1
3369	B10
3370	B10
3371	A10
3372	B10
3377	G 9
3380	B11
3381	G14
3383	E13
3387	B16
3388	B16
3389	F13
3391	I13
3392	J18
3393	J18
3394	K18
3395	I13
3396	J13
3397	M 4
3398	M17
3399	M17
3400	B21
3410	G29
3425	H24
3426	H24
3439	H21
3441	H22
3443	H22
3450	M29
3451	M29
3453	K28
3454	J29
3455	J29
3456	I29
3465	N22
3471	N29
3472	N29
3473	N28
3474	I21
3475	L25
3476	M25
3477	M26
3478	M27
3479	M26
3480	M19
3481	M20
3482	N19
3483	N20
3492	N25
3882	J14
4118	L15
4164	M16
4205	C13
4210	B17
4300	H11
4300	H16
4302	H10
4302	H16
4305	E17
4319	I 4
4319	J 4
4320	K 7
4325	C 2
4330	I 3
4331	G10
4332	H 2
4333	E 2
4346	A 5
4362	N 6
4375	B 3
4377	K18
4386	B15
4420	H 5
4440	N24
4443	K24
4450	C22
4452	K29
4453	B18
4454	N24
4460	N28
4476	I21
4477	D25
4496	N25
4500	B21
5303	K21
5304	J21
5305	I 7
5330	K 5
5331	J 5
5332	K 6
5345	B 7
5346	D 5
5370	A10
5454	J28
5455	J28
5456	I28
6205	L15
6206	M15
6207	M15
6331	K 7
6342	B 6
6343	C 6
6345	M19
6370	G13
6385	F13
6387	C17
6450	L26
6471	D25
6478	M27
6479	L26
6480	N20
6485	M21
7305	H 6
7311	J 8
7311	L 8
7314	H 5
7324	H 9
7330	L 5
7332	L 8
7333	K 6
7335	K 4
7336	L 5
7338	F 4
7340	G 2
7350	E 5
7360	N 4
7365	C 8
7366	C14
7390	I13
7395	I15
7410	G25
7430	H22
7450	L29
7451	L28
7471	M28
7480	N21
7492	N25
9084	B21
9169	G 5
9182	N 7
9208	H 2
9210	M15
9230	L14
9232	L14
9234	K10
9236	L14
9238	M16
9252	L16
9254	K13
9255	E 2
9317	E 2
9317	I10
9318	G 2
9372	N 8
9375	B 3
9375	F 5
9380	H29
9381	N 5
9382	N 5
9387	N 8
9392	N23
9400	E21
9440	D25
9441	B23
9452	I28
9453	J28
9454	K28
9456	G26
9457	H28
9458	G26

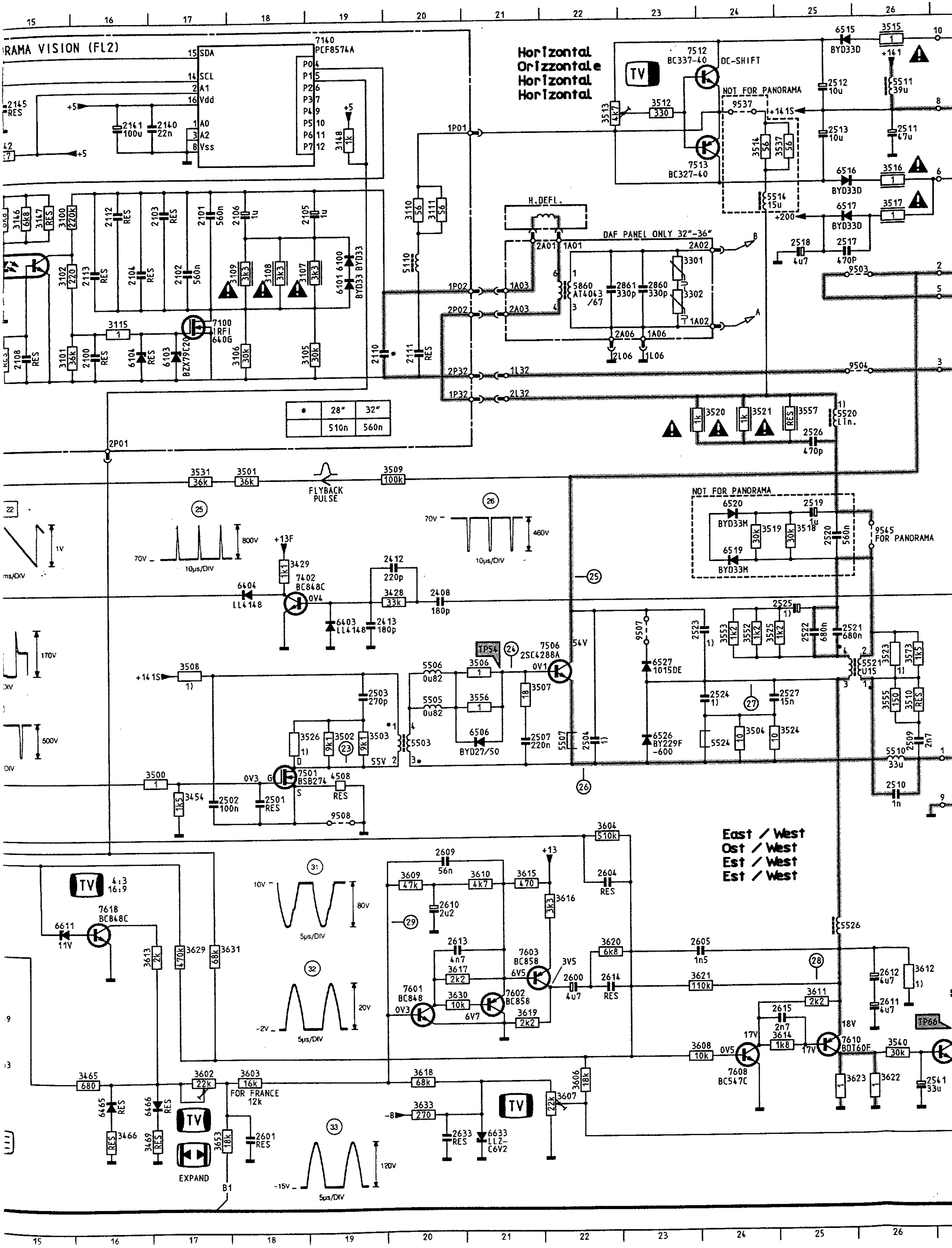
Synchro


B
1
2
3
4
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
20
21V
10V
2ms/DIV
+13
3418
200
7417
BC858C
3417
2k2
A1
+141
A204
+V START
C28
8S02
8L02
+5
A2
-11
A6
+13
3805
22
+13A
2805
10u
3444
10k
6440
1N4148
3426
330
D80
4L03
C5100
1S03
1L03
4405
E/W NTSC PANEL
ONLY FRANCE
3656
10k
3654
2k2
7652
BC848C
7651
BC848C
6651
LL4148
3655
2k2
3652
8k2
2L71
B1
3651
1k
6650
9V1
7650
BC848C
3650
18k
2652
RES
3653
100k
D75
5L03
ASP RATIO
34
D216
3L03
16:9
30
15V
280V
5µs/DIV
D66
7L03
100
3430
470
3810
10
3438
1k1
+13A
7800
HEF4053
+13N
+13A
7802
BC848
3804
10k
3803
2k2
13
12
3
5
28
15V
12V
1ms/DIV
3802
100k
3809
100k
3806
2k2
6803
LL4148
+13A
7801
BC848
29
0V5
0.2V
2ms/DIV

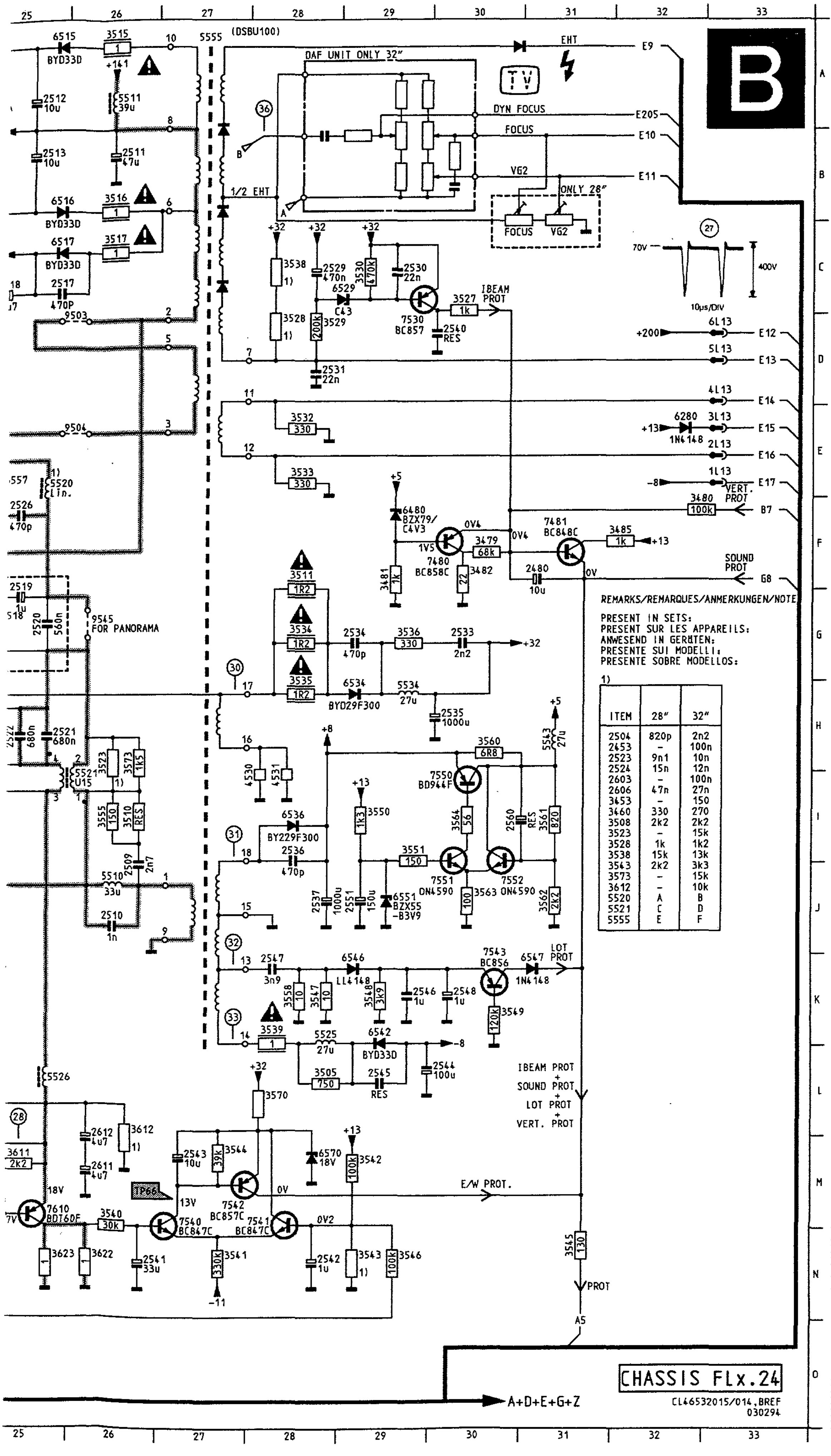
Synchronization / Synchronisierung / Synchronisation


4
5
6
7
8
9
10
11
12
13
14
15
PANORAMA VISION
E/W NTSC PANEL
4822 212 30195
Synchronisation
Synchronisation
Sincronizzazione
Synchronisation
Vertical
Vertikal
Verticale
Vertical
21V
s/DIV
+13
+V START
9652
4401
RES
3418
200
7417
BC858C
3417
2k2
6417
LLZC2V4
21
13V
5.3V
2ms/DIV
H159
3P50
2P50
1P50
3141
100
3140
100
9101
+24/32
9102
2145
RES
+5
3P91
2P91
1P91
Z3
Z2
Z1
3120
RES
3121
4k7
3122
4k7
9100
3142
4k7
2120
RES
6128
BZX79
C5V1
+24/32
1L90
2L90
3L90
-8
3P90
2P90
1P90
9103
+24
/32
3143
2k2
3145
6k8
3146
6k8
3147
RES
3100
220k
7142
SOC
1012
3102
220
7141
BC547
3144
4k7
3104
RES
2108
RES
3101
36k
+13F
3448
10k
7444
BC848
7443
BC848
2404
4u7
3444
10k
3443
22k
3404
1k8
2405
47n
2402
4u7
3402
5k6
3403
22
2403
22u
2406
1n2
3405
33k
3406
10k
TV
2417
1n2
2416
100n
+13F
+13
3419
27
3421
1k5
2418
22n
2419
330u
3408
56k
6V8
6
5V6
7
2V9
8
4V3
15
9V
16
11V5
10
7400
TDA2579B/N8S1
6440
1N4148
6441
LL4148
5
2V9
31250Hz
11
0V3
TP68
TP70
TP69
3426
330
3440
16k
3441
6k2
3442
3k3
18
2V
TV
IDENT.
100Hz
12
0V6
2
1V1
3407
560
22
0.5V
1V
2ms/DIV
56
54
52
51
6650
9V1
7650
BC848C
3650
18k
1L70
+13
2L70
1L71
3415
47k
3484
220k
2401
47n
13
4
7V5
3
4V3
1
14
2V8
9
17
1V5
2409
22n
3414
150k
+13V
3627
2k
7616
BC848C
35
EXPAND
3628
47k
3634
47k
6422
LL4148
3422
470k
3439
820k
3411
200k
3424
200
2411
150n
2410
150n
3409
270k
3410
150k
2607
RES
3413
RES
2415
47n
TP65
3601
100k
3632
130k
2606
1)
2603
1)
3605
10k
EHT INFO
23
170V
0V
10µs/DIV
24
70V
500V
10µs/DIV
34
3420
10M
(9625)
4:3
16:9
3412
47k
7410 (3625)
BC548
3416
27k
VERTICAL
DRIVE
VERTICAL
FEEDBACK
+13A
7800
HEF4053
16
2806
22n
3438
1k1
3810
10
1
2
15
10
13
12
14
11
3
5
4
9
6,7,8
+13A
3804
10k
3803
2k2
3809
100k
6801
LL4148
3801
180k
2801
1n8
3800
5k6
+13A
6803
LL4148
6802
BAV99
3807
2k2
6804
LL4148
3811
220
VERTICAL BLANKING 16:9
EXPAND
V100
6L03
6S54
D217
2407
1n
3450
5k6
3451
4k3
2455
1n
4400
V.DEFL.
3L30
2L30
1L30
7450
TDA3654Q
TP63
TP64
2V
2V
7451
BC858A
2450
10n
2451
1n
TP62
7
0V4
5
6
28V7
8
12V1
2
9
29V
3453
1)
2453
1)
3452
15
2461
RES
2459
100n
6452
BYD33D
+32
2452
220u
3460
1)
6451
C10
3473
1)
2458
22n
2460
100n
VERT.
PROT
B7
21
22
2456
3300u
3456
150k
2457
1u
3457
9k1
3458
1R5
3459
1R5
+24
1)
+32
3461
1
3462
1
3463
RES
3471
RES
3464
1k
3455
470
3468
330
3470
RES
IL
3467
10k
7469
BC636
TV
2L03
D71
6611
11V
TV

FLx.24 (16:9)


Horizontal
Orizzontale
Horizontal
Horizontal
East / West
Ost / West
Est / West
Est / West
RAMA VISION (FL2)
7140
PCF8574A
SDA
SCL
A1
Vdd
A0
A2
Vss
P0
P1
P2
P3
P4
P5
P6
P7
+5
7512
BC337-40
DC-SHIFT
7513
BC327-40
3513 4k7
3512 330
NOT FOR PANORAMA
9537
+141S
+141
+200
3514 56
3537 56
5514 15u
6515 BYD33D
3515 1
6516 BYD33D
3516 1
6517 BYD33D
3517 1
2512 10u
2513 10u
5511 39u
2511 47u
2518 4u7
2517 470P
9503
9504
H.DEFL.
DAF PANEL ONLY 32"-36"
5860 AT4043/67
2861 330p
2860 330p
3301
3302
1P01
1P02
2P02
2P32
1P32
2P01
1A01
2A01
1A02
2A02
1A03
2A03
1A06
2A06
1L06
2L06
1L32
2L32
3110 56
3111 56
5110
2110 *
2111 RES
7100 IRFI 640G
3115 1
3100 270k
3102 220
3101 36k
3106 30k
3105 30k
3109 3k3
3108 3k3
3107 3k3
2101 560n
2102 560n
2106 1u
2105 1u
6101 6100 BYD33 BYD33
6103 BZX79C20
6104
3146 6k8
3147 RES
2141 100u
2140 22n
3148 1k
3520 1k
3521 1k
3557 RES
5520 Lin.
2526 470p
3531 36k
3501 36k
3509 100k
FLYBACK PULSE
NOT FOR PANORAMA
6520 BYD33M
6519 BYD33M
3519 30k
3518 30k
2519 1u
2520 560n
9545 FOR PANORAMA
70V
800V
10µs/DIV
460V
1V
170V
500V
+13F
3429 1k1
7402 BC848C
0V4
6404 LL4148
6403 LL4148
2412 220p
3428 33k
2413 180p
2408 180p
1P54
7506 2SC4288A
54V
0V1
5506 0u82
3506 1
5505 0u82
3556 1
6506 BYD27/50
3507 18
2507 220n
5507
2504 1)
5503
+141S
3508 1)
2503 270p
3526 1)
3502 9k1
3503 9k1
55V
7501 BSB274
0V3
4508 RES
3500 1
3454 1k5
2502 100n
2501 RES
9508
9507
6527 1015DE
6526 BY229F -600
2523 1)
2524 1)
5524
3504 10
3524 10
2527 15n
3553 1k2
3552 1k2
3525 1k2
2525
2522 680n
2521 680n
5521 U15
3523 1)
3573 1k5
3555 150
3510 RES
2509 2n7
5510 33u
2510 1n
3604 510k
2604 RES
2609 56n
3609 47k
3610 4k7
3615 470
+13
3616 3k3
2610 2u2
2613 4n7
3617 2k2
7603 BC858
6V5
3V5
2600 4u7
2614 RES
3620 6k8
2605 1n5
3621 110k
7601 BC848
0V3
3630 10k
7602 BC858
6V7
3619 2k2
TV
4:3
16:9
7618 BC848C
6611 11V
3613 2k
3629 470k
3631 68k
3465 680
6465 RES
3466 RES
6466 RES
3469 RES
3602 22k
3603 16k
FOR FRANCE 12k
3653 18k
2601 RES
EXPAND
B1
3618 68k
-8
3633 270
2633 RES
6633 LLZ-C6V2
3607 22k
3606 18k
10V
80V
5µs/DIV
20V
-2V
120V
-15V
5526
3611 2k2
2615 2n7
3614 1k8
17V
18V
7610 BDT60F
3608 10k
0V5
7608 BC547C
3623 1
3622 1
3540 30k
2541 33u
2612 4u7
2611 4u7
3612 1)
1P66

*	28"	32"
	510n	560n


B
25
26
27
28
29
30
31
32
33
6515
BYD33D
3515
1
10
5555
(DSBU100)
EHT
E9
DAF UNIT ONLY 32"
TV
+141
5511
39u
2512
10u
2513
10u
2511
47u
8
36
DYN FOCUS
E205
FOCUS
E10
VG2
E11
ONLY 28"
FOCUS
VG2
1/2 EHT
6516
BYD33D
3516
6
6517
BYD33D
3517
2517
470P
+32
3538
1)
2529
470n
3530
470k
2530
22n
6529
C43
3529
7530
BC857
3527
1k
IBEAM PROT
2540
RES
3528
1)
200k
2531
22n
27
70V
400V
10μs/DIV
+200
6L13
E12
5L13
E13
9503
9504
2
5
7
3
11
4L13
E14
3532
330
6280
1N4148
3L13
+13
E15
12
2L13
E16
3533
330
1L13
-8
E17
VERT. PROT
3480
100k
B7
5520
Lin.
2526
470p
+5
6480
BZX79/C4V3
0V4
7481
BC848C
3485
1k
1V5
3479
68k
7480
BC858C
3481
1k
3482
22
2480
10u
0V
SOUND PROT
G8
2519
560n
2520
9545
FOR PANORAMA
3511
1R2
3534
1R2
2534
470p
3536
330
2533
2n2
+32
30
17
3535
1R2
6534
BYD29F300
5534
27u
2535
1000u
2522
680n
2521
680n
3523
3573
1K5
5521
U15
16
4530
4531
+8
3560
6R8
5543
27u
7550
BD944F
3555
150
3510
RES
31
18
6536
BY229F300
2536
470p
+13
3550
1k3
3564
56
2560
RES
3561
820
2509
2n7
5510
33u
1
3551
150
7551
ON4590
7552
ON4590
2537
1000u
2551
150u
6551
BZX55-B3V9
3563
100
3562
2k2
15
2510
1n
9
32
13
2547
3n9
6546
LL4148
7543
BC856
6547
1N4148
LOT PROT
3558
10
3547
10
3548
3k9
2546
1u
2548
1u
3549
120k
33
14
3539
1
5525
27u
6542
BYD33D
-8
3505
750
2545
RES
2544
100u
5526
IBEAM PROT + SOUND PROT + LOT PROT + VERT. PROT
28
3611
2k2
2612
4u7
2611
4u7
3612
1)
3570
2543
10u
3544
39k
6570
18V
3542
100k
E/W PROT.
TP66
18V
7610
BD160F
13V
7542
BC857C
0V
3540
30k
7540
BC847C
7541
BC847C
0V2
3545
130
3623
1
3622
1
2541
33u
3541
330k
-11
2542
1u
3543
1)
3546
100k
PROT
A5
A+D+E+G+Z

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

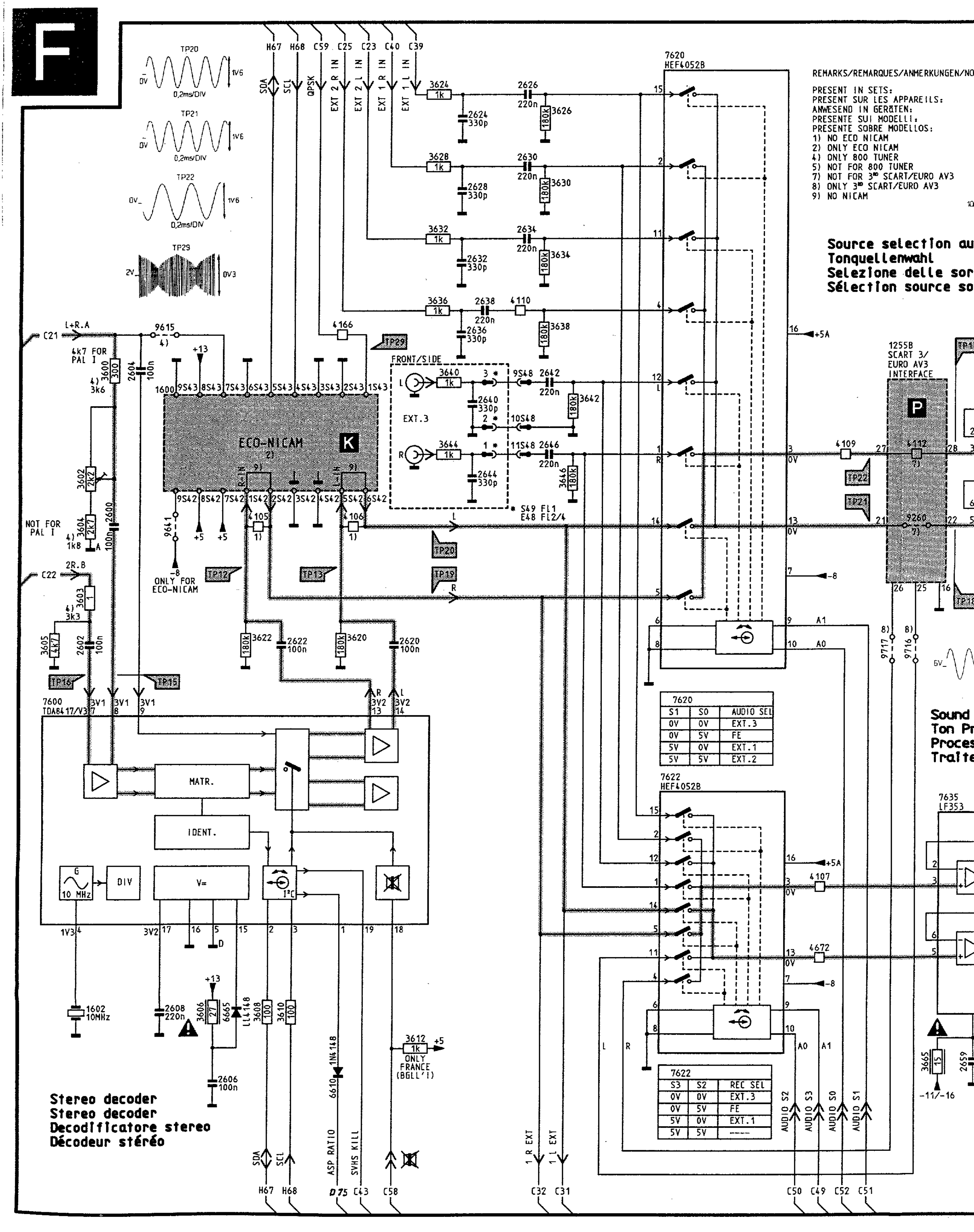
1)

ITEM	28"	32"
2504	820p	2n2
2453	–	100n
2523	9n1	10n
2524	15n	12n
2603	–	100n
2606	47n	27n
3453	–	150
3460	330	270
3508	2k2	2k2
3523	–	15k
3528	1k	1k2
3538	15k	13k
3543	2k2	3k3
3573	–	15k
3612	–	10k
5520	A	B
5521	C	D
5555	E	F

CHASSIS FLx.24

CL46532015/014.BREF
030294

2100	D16	3110	C20	3538	C28	6466	N16
2101	C17	3111	C20	3539	K28	6480	F29
2102	C17	3115	D16	3540	M26	6506	I21
2103	C17	3121	B13	3541	N27	6515	A25
2104	C16	3122	B13	3542	M29	6516	B25
2105	C19	3140	A13	3543	N29	6517	C25
2106	C18	3141	A13	3544	M27	6519	G24
2108	D15	3142	B15	3545	N31	6520	F24
2110	D19	3143	C14	3546	N29	6526	I23
2111	D20	3144	D14	3547	K28	6527	I23
2112	C16	3145	C15	3548	K29	6529	C29
2113	C16	3146	C15	3549	K30	6534	H29
2120	B13	3147	C15	3550	I29	6536	I28
2140	B17	3148	B19	3551	I29	6542	K29
2141	B16	3301	C23	3552	H24	6546	K29
2145	A15	3302	D23	3553	H24	6547	K31
2401	G 7	3402	D 8	3555	I26	6551	J29
2402	D 7	3403	D 9	3556	I21	6570	M28
2403	D 9	3404	D 6	3557	E25	6611	L15
2404	D 7	3405	D10	3558	K28	6633	N21
2405	D 7	3406	D10	3560	H30	6650	G 4
2406	D10	3407	F14	3561	I31	6651	G 3
2407	L 8	3408	D14	3562	J31	6801	L 6
2408	H20	3409	H 8	3563	J30	6802	N 5
2409	G12	3410	I 8	3564	I30	6803	M 4
2410	I 9	3411	H 9	3570	L28	6804	N 6
2411	H 9	3412	J 7	3573	H26	7100	D17
2412	G20	3413	G10	3601	H10	7140	A19
2413	H19	3414	G 7	3602	N17	7141	D15
2415	H11	3415	F 6	3603	N18	7142	C14
2416	D11	3416	J 7	3604	K22	7400	E 7
2417	D11	3417	C 5	3605	I11	7402	G18
2418	E13	3418	B 4	3606	N22	7410	J 8
2419	E13	3419	D14	3607	N22	7417	B 4
2450	M 8	3420	I 7	3608	M23	7443	D 5
2451	M 8	3421	D12	3609	K20	7444	D 6
2452	M11	3422	H 7	3610	K21	7450	L 9
2453	L12	3424	G 9	3611	M25	7451	L 8
2455	K10	3426	F 5	3612	L26	7469	O13
2456	L14	3428	H20	3613	L16	7480	F30
2457	M13	3429	G18	3614	M25	7481	F31
2458	O11	3430	J 3	3615	K21	7501	J18
2459	M11	3438	J 4	3616	K22	7506	H22
2460	O12	3439	H 8	3617	L20	7512	A24
2461	M11	3440	F 5	3618	N20	7513	B24
2480	F31	3441	F 6	3619	M21	7530	D29
2501	J18	3442	F 6	3620	L22	7540	M27
2502	J17	3443	D 5	3621	M23	7541	M28
2503	I19	3444	D 5	3622	N26	7542	M27
2504	I22	3448	D 5	3623	N25	7543	K30
2507	I21	3450	K 8	3625	J 8	7550	I30
2509	J26	3451	K 9	3627	H 6	7551	J30
2510	J26	3452	L11	3628	H 5	7552	J30
2511	B26	3453	L12	3629	L17	7601	M20
2512	A25	3454	J17	3630	M20	7602	M21
2513	B25	3455	N13	3631	L17	7603	L21
2517	C25	3456	L13	3632	H10	7608	N24
2518	C25	3457	M13	3633	N20	7610	M25
2519	G25	3458	M14	3634	H 5	7616	H 6
2520	G25	3459	M14	3650	G 5	7618	L16
2521	H25	3460	M11	3651	G 4	7650	G 4
2522	H25	3461	M13	3652	G 2	7651	G 3
2523	H24	3462	M14	3653	H 3	7652	G 3
2524	I24	3463	M14	3653	O17	7800	J 4
2525	H25	3464	N13	3654	G 4	7801	N 3
2526	F25	3465	N16	3655	G 3	7802	K 3
2527	I25	3466	N16	3656	F 4	9100	B12
2529	C28	3467	O12	3800	M 7	9101	A13
2530	C29	3468	N13	3801	L 7	9102	A14
2531	D28	3469	O16	3802	M 3	9103	B12
2533	G30	3470	N14	3803	L 4	9503	D26
2534	G29	3471	N13	3804	K 4	9504	E26
2535	H30	3473	N11	3805	D 2	9507	H23
2536	I28	3479	F30	3806	M 3	9508	J19
2537	J28	3480	F32	3807	M 6	9537	A24
2540	D30	3481	F29	3809	M 4	9545	G26
2541	N26	3482	F30	3810	J 4	9625	I 7
2542	N28	3484	F 6	3811	M 6	9652	B 6
2543	M27	3485	F32	4400	K10		
2544	L30	3500	J17	4401	B 5		
2545	L29	3501	F18	4405	F 3		
2546	K29	3502	I19	4508	J19		
2547	K28	3503	I19	4530	I28		
2548	K30	3504	I24	4531	I28		
2551	J29	3505	L28	5110	C20		
2560	I30	3506	H21	5503	I20		
2600	M22	3507	I21	5505	I20		
2601	N18	3508	H17	5506	I20		
2603	I10	3509	F20	5507	I22		
2604	K22	3510	I26	5510	J26		
2605	L23	3511	F28	5511	A26		
2606	I11	3512	A23	5514	C24		
2607	H10	3513	B22	5520	E25		
2609	K20	3514	B24	5521	I26		
2610	L20	3515	A26	5524	I24		
2611	M26	3516	B26	5525	K28		
2612	M26	3517	C26	5526	L25		
2613	L20	3518	G25	5534	H29		
2614	M22	3519	G24	5543	H31		
2615	M25	3520	E24	5555	A27		
2633	N20	3521	E24	5860	D22		
2652	H 3	3523	H26	6100	C19		
2801	L 7	3524	I25	6101	D19		
2805	E 2	3525	H24	6103	D17		
2806	J 5	3526	I18	6104	D16		
2860	D23	3527	C30	6128	B14		
2861	D22	3528	C28	6280	E32		
3100	C15	3529	D28	6403	H19		
3101	D15	3530	C29	6404	G18		
3102	C15	3531	F17	6417	B 5		
3104	D15	3532	E28	6422	H 7		
3105	D19	3533	E28	6440	E 5		
3106	D18	3534	G28	6441	E 5		
3107	C19	3535	H28	6451	N11		
3108	C18	3536	G29	6452	M12		
3109	C18	3537	B25	6465	N16		


F
TP20
1V6
0V
0,2ms/DIV
TP21
TP22
TP29
2V
0V3
H67 H68 C59 C25 C23 C40 C39
SDA
SCL
QPSK
EXT 2 R IN
EXT 2 L IN
EXT 1 R IN
EXT 1 L IN
3624 1k
2624 330p
2626 220n
3626 180k
3628 1k
2628 330p
2630 220n
3630 180k
3632 1k
2632 330p
2634 220n
3634 180k
3636 1k
2636 330p
2638 220n
4110
3638 180k
7620 HEF4052B
16 +5A
L+R.A
C21
9615
4k7 FOR PAL I
3600 300
3k6
2604 100n
+13
4166
1600
ECO-NICAM
K
FRONT/SIDE
EXT.3
3640 1k
2640 330p
3644 1k
2644 330p
9S48 2642 220n
3642 180k
10S48
11S48 2646 220n
3646 180k
S49 FL1
E48 FL2/4
3602 2k2
NOT FOR PAL I
3604 2k7
1k8
2600 100n
9641
ONLY FOR ECO-NICAM
4105
4106
TP12
TP13
TP20
TP19
2R.B
C22
3603 1k
3k3
3605 4k7
2602 100n
TP16
TP15
3622 180k
2622 100n
3620 180k
2620 100n
7600 TDA8417/V3
3V1
3V2
MATR.
IDENT.
G 10 MHz
DIV
V=
I²C
1V3
1602 10MHz
2608 220n
3606 27
6665 LL4148
3608 100
3610 100
6610 1N4148
3612 1k +5
ONLY FRANCE (BGLL'I)
SDA
SCL
ASP RATIO
SVHS KILL
H67 H68
D75 C43 C58
1 R EXT
1 L EXT
C32 C31
4109
TP22
TP21
1255B SCART 3/ EURO AV3 INTERFACE
P
4112
9260
9717
9716
6V
7622 HEF4052B
4107
4672
AUDIO S2
AUDIO S3
AUDIO S0
AUDIO S1
A0 A1
C50 C49 C52 C51
7635 LF353
3665 15
2659
-11/-16

REMARKS/REMARQUES/ANMERKUNGEN/NO

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) NO ECO NICAM
2) ONLY ECO NICAM
4) ONLY 800 TUNER
5) NOT FOR 800 TUNER
7) NOT FOR 3ᴿᴰ SCART/EURO AV3
8) ONLY 3ᴿᴰ SCART/EURD AV3
9) NO NICAM

Source selection au
Tonquellenwahl
Selezione delle sor
Sélection source so

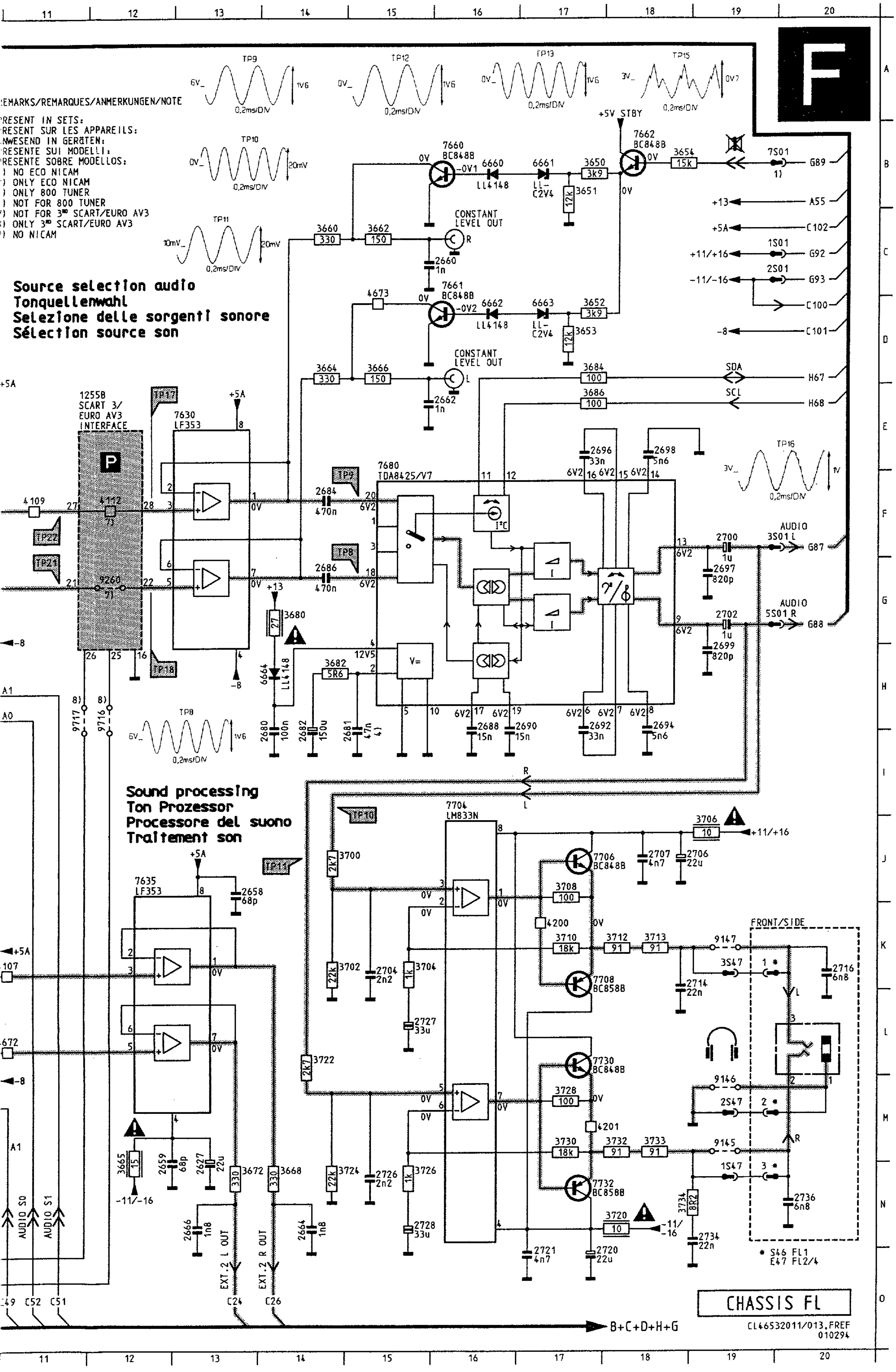
7620		
S1	S0	AUDIO SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	EXT.2

7622		
S3	S2	REC SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	-----

Sound
Ton Pr
Proces
Traite

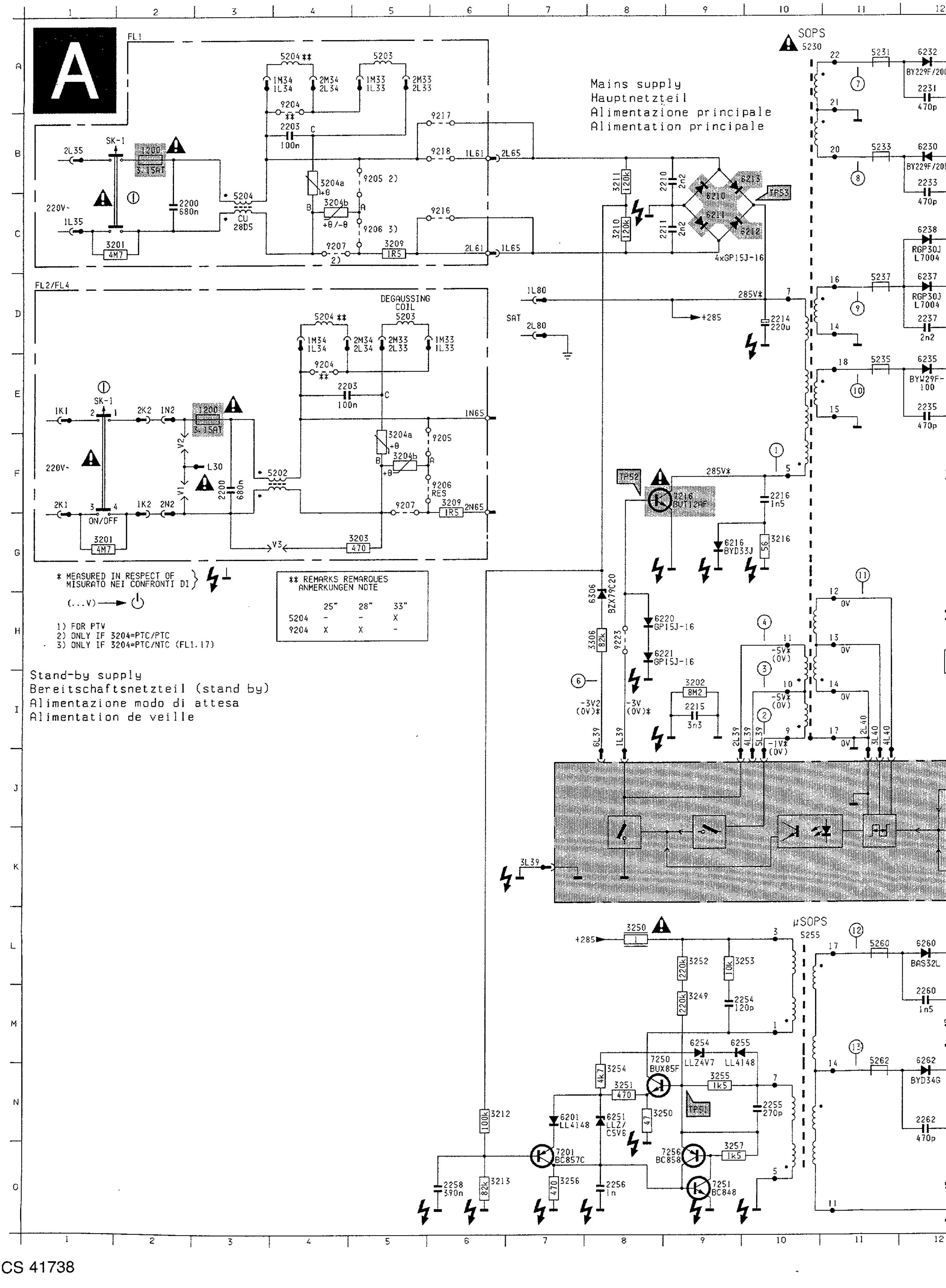
Stereo decoder
Stereo decoder
Decodificatore stereo
Décodeur stéréo

11 Traitement audio


F
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
) NO ECO NICAM
) ONLY ECO NICAM
) ONLY 800 TUNER
) NOT FOR 800 TUNER
) NOT FOR 3RD SCART/EURO AV3
) ONLY 3RD SCART/EURO AV3
) NO NICAM
Source selection audio
Tonquellenwahl
Selezione delle sorgenti sonore
Sélection source son
Sound processing
Ton Prozessor
Processore del suono
Traitement son
TP9
TP10
TP11
TP12
TP13
TP15
TP16
TP8
TP17
TP18
TP21
TP22
0,2ms/DIV
1V6
20mV
0V7
1V
+5V STBY
7660 BC848B
7661 BC848B
7662 BC848B
6660 LL4148
6662 LL4148
6661 LL-C2V4
6663 LL-C2V4
3650 3k9
3652 3k9
3651 12k
3653 12k
3654 15k
3660 330
3662 150
3664 330
3666 150
4673
2660 1n
2662 1n
CONSTANT LEVEL OUT
R
L
7S01
1S01
2S01
G89
A55
C102
G92
G93
C100
C101
+13
+5A
+11/+16
-11/-16
-8
3684 100
3686 100
SDA
SCL
H67
H68
1255B SCART 3/ EURO AV3 INTERFACE
P
7630 LF353
4109
4112
9260
7680 TDA8425/V7
I²C
2684 470n
2686 470n
2696 33n
2698 5n6
2688 15n
2690 15n
2692 33n
2694 5n6
3680 27
6664 LL4148
3682 5R6
2680 100n
2682 150u
2681 47n
V=
2700 1u
2702 1u
2697 820p
2699 820p
AUDIO 3S01 L
AUDIO 5S01 R
G87
G88
9717
9716
7704 LM833N
7635 LF353
2658 68p
3700 2k7
3702 22k
2704 2n2
3704 1k
2727 33u
3722 2k7
3724 22k
2726 2n2
3726 1k
2728 33u
3706 10
2707 4n7
2706 22u
7706 BC848B
7708 BC858B
7730 BC848B
7732 BC858B
3708 100
3728 100
4200
4201
3710 18k
3712 91
3713 91
3730 18k
3732 91
3733 91
9147
9146
9145
3S47
2S47
1S47
2714 22n
2716 6n8
2736 6n8
2734 22n
3734 8R2
3720 10
2720 22u
2721 4n7
FRONT/SIDE
* S46 FL1
E47 FL2/4
3665 15
2659 68p
2627 22u
3672 330
3668 330
2666 1n8
2664 1n8
EXT.2 L OUT
EXT.2 R OUT
AUDIO S0
AUDIO S1
C49
C52
C51
C24
C26
A1
A0
107
672
B+C+D+H+G
CHASSIS FL
CL46532011/013.FREF
010294

1255	E11
1600	E 2
1602	M 1
2600	G 2
2602	H 1
2604	E 2
2606	N 3
2608	M 2
2620	H 5
2622	H 4
2624	B 6
2626	A 7
2627	M13
2628	C 6
2630	B 7
2632	D 6
2634	C 7
2636	D 6
2638	D 6
2640	E 6
2642	E 7
2644	F 6
2646	F 7
2658	J13
2659	M12
2660	C16
2662	E16
2664	N14
2666	N13
2680	H14
2681	H15
2682	H14
2684	F14
2686	G14
2688	H16
2690	H16
2692	H17
2694	H18
2696	E17
2697	G19
2698	E18
2699	H19
2700	F19
2702	G19
2704	K15
2706	J18
2707	J18
2714	K18
2716	K20
2720	O17
2721	O17
2726	N15
2727	L15
2728	N15
2734	N19
2736	N20
3600	E 2
3602	F 1
3603	H 1
3604	G 1
3605	H 1
3606	M 3
3608	M 4
3610	M 4
3612	M 6
3620	H 5
3622	H 3
3624	A 6
3626	B 7
3628	B 6
3630	C 7
3632	C 6
3634	C 7
3636	D 6
3638	D 7
3640	E 6
3642	E 8
3644	F 6
3646	F 7
3650	B17
3651	B17
3652	D17
3653	D17
3654	B18
3660	C14
3662	C15
3664	D14
3665	M12
3666	D15
3668	N14
3672	N13
3680	G14
3682	H14
3684	D17
3686	E17
3700	J14
3702	K14
3704	K15
3706	J19
3708	J17
3710	K17
3712	K18
3713	K18
3720	N18
3722	L14
3724	N14
3726	N15
3728	M17
3730	M17
3732	M18
3733	M18
3734	N18
4105	G 4
4106	G 5
4107	K11
4109	F11
4110	D 7
4112	F12
4166	D 5
4200	K17
4201	M17
4672	L11
4673	C15
6610	N 5
6660	B16
6661	B17
6662	D16
6663	D17
6664	H14
6665	M 3
7600	I 1
7620	A 9
7622	J 9
7630	E12
7635	J12
7660	B16
7661	C16
7662	B18
7680	E15
7704	I16
7706	J17
7708	K17
7730	L17
7732	N17
9145	M19
9146	M19
9147	K19
9260	G12
9615	D 2
9641	G 2
9716	H12
9717	H11

Power supply / Stromversorgung / L'alimentation


A
FL1
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
SOPS
5230
2L35
SK-1
1200
3.15AT
220V~
1L35
3201
4M7
2200
680n
5204
CU
28D5
5204 **
5203
1M34
1L34
2M34
2L34
1M33
1L33
2M33
2L33
9204
2203
100n
3204a
3204b
9205 2)
9206 3)
9207
3209
1R5
9217
9218
9216
1L61
2L65
2L61
1L65
3211
120k
3210
120k
2210
2n2
2211
2n2
6210
6211
6212
6213
TP53
4xGP15J-16
285V*
2214
220u
+285
1L80
SAT
2L80
FL2/FL4
DEGAUSSING COIL
5202
1K1
2K1
2K2
1N2
1K2
2N2
L30
ON/OFF
1N65
2N65
3203
470
V1
V2
V3
RES
TP52
7216
BUT12AF
2216
1n5
6216
BYD33J
3216
56
6306
BZX79C20
3306
82k
9223
6220
GP15J-16
6221
GP15J-16
3202
8M2
2215
3n3
-3V2 (0V)*
-3V (0V)*
-5V* (0V)
-1V* (0V)
6L39
1L39
2L39
4L39
5L39
2L40
3L40
4L40
3L39
5231
6232
BY229F/200
2231
470p
5233
6230
2233
470p
6238
RGP30J L7004
5237
6237
2237
2n2
5235
6235
BYW29F-100
2235
470p
µSOPS
5255
3250
+285
3252
220k
3253
10k
3249
220k
2254
120p
6254
LLZ4V7
6255
LL4148
7250
BUX85F
3254
4k7
3251
470
3255
1k5
2255
270p
TP51
47
6201
LL4148
6251
LLZ/C5V6
7201
BC857C
3212
100k
3213
82k
2258
390n
3256
470
2256
1n
7256
BC858
3257
1k5
7251
BC848
5260
6260
BAS32L
2260
1n5
5262
6262
BYD34G
2262
470p
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille

* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI

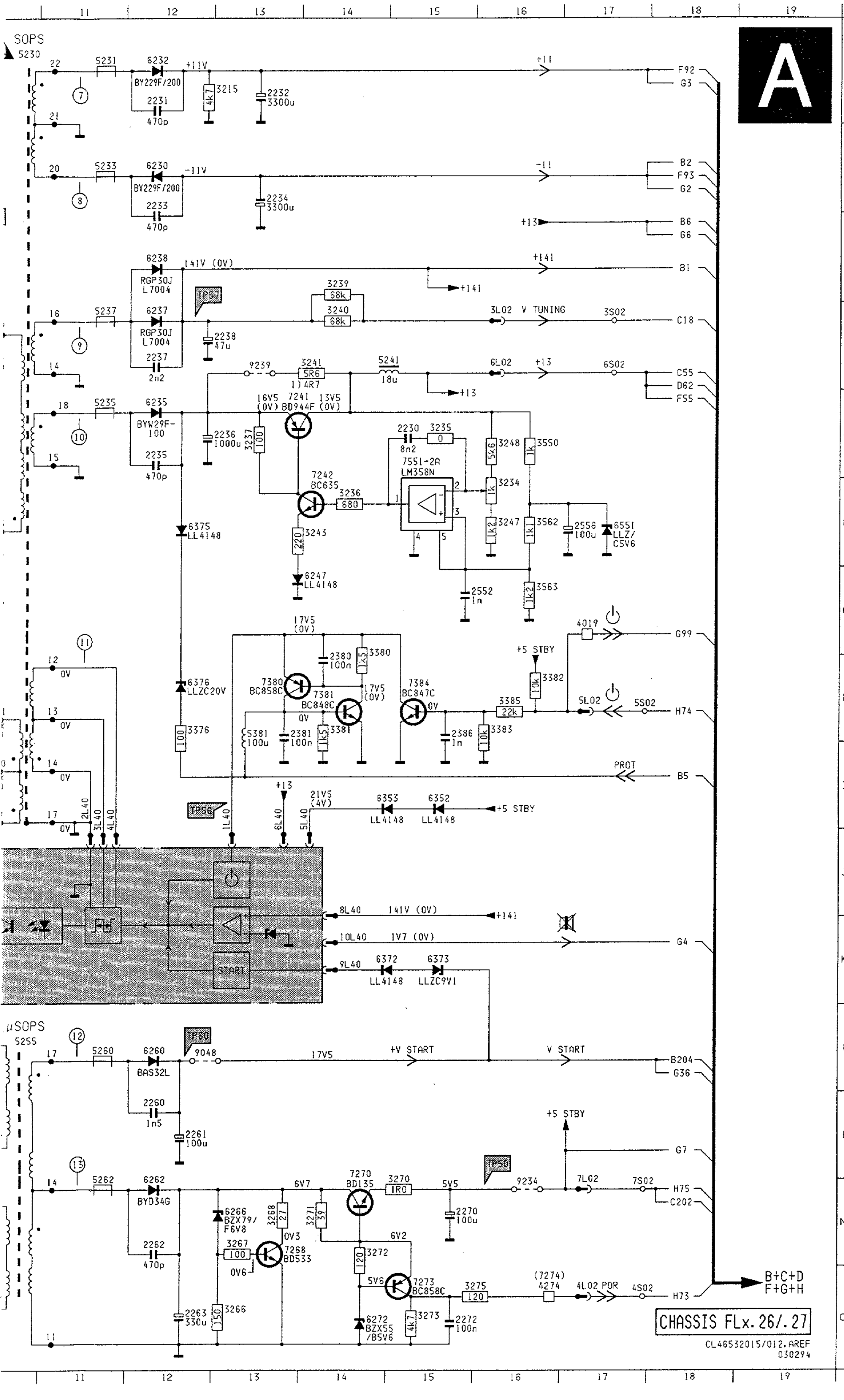
(...V) ——►

1) FOR PTV
2) ONLY IF 3204=PTC/PTC
3) ONLY IF 3204=PTC/NTC (FL1.17)

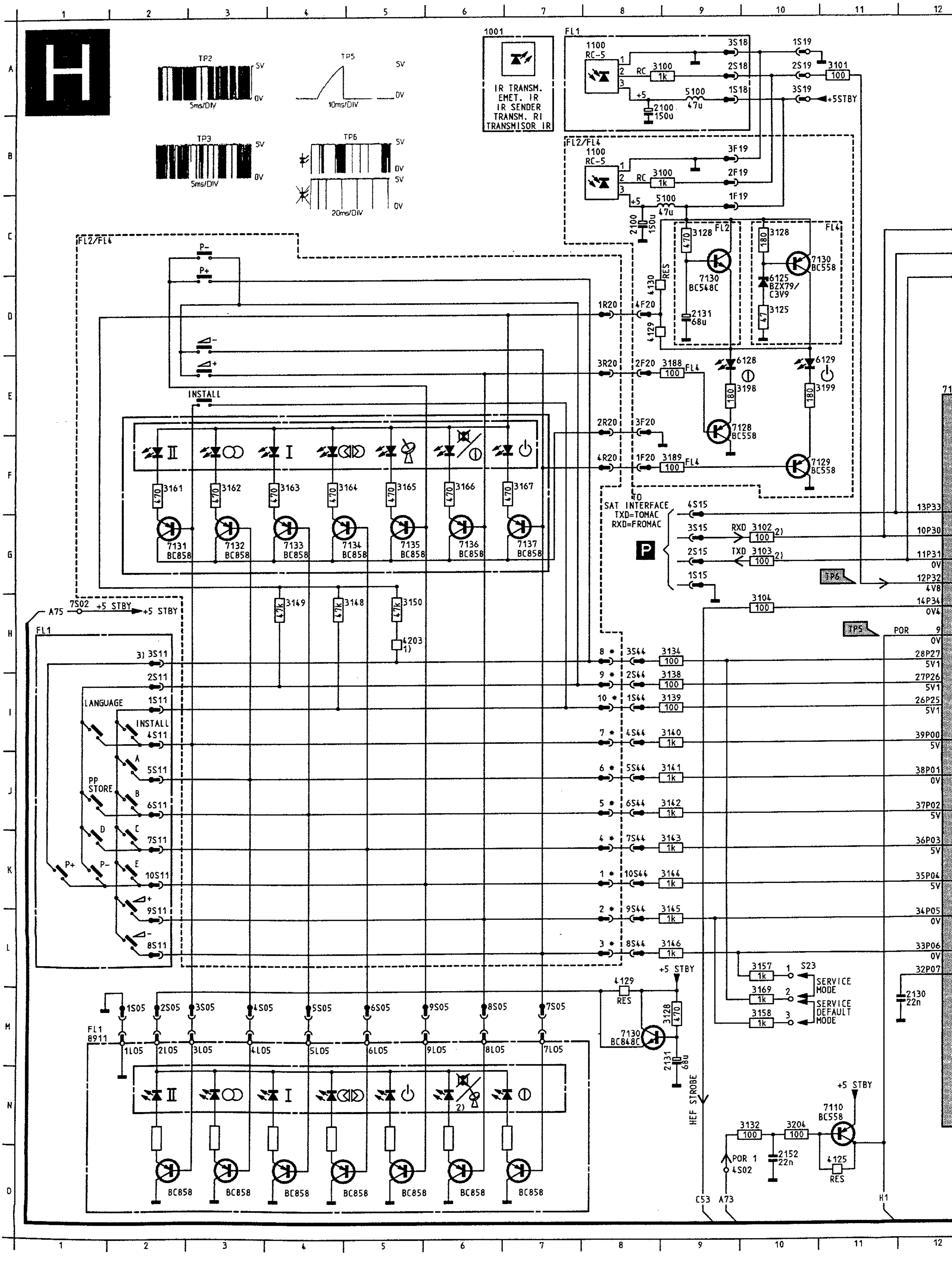
** REMARKS REMARQUES
ANMERKUNGEN NOTE

	25"	28"	33"
5204	-	-	X
9204	X	X	-

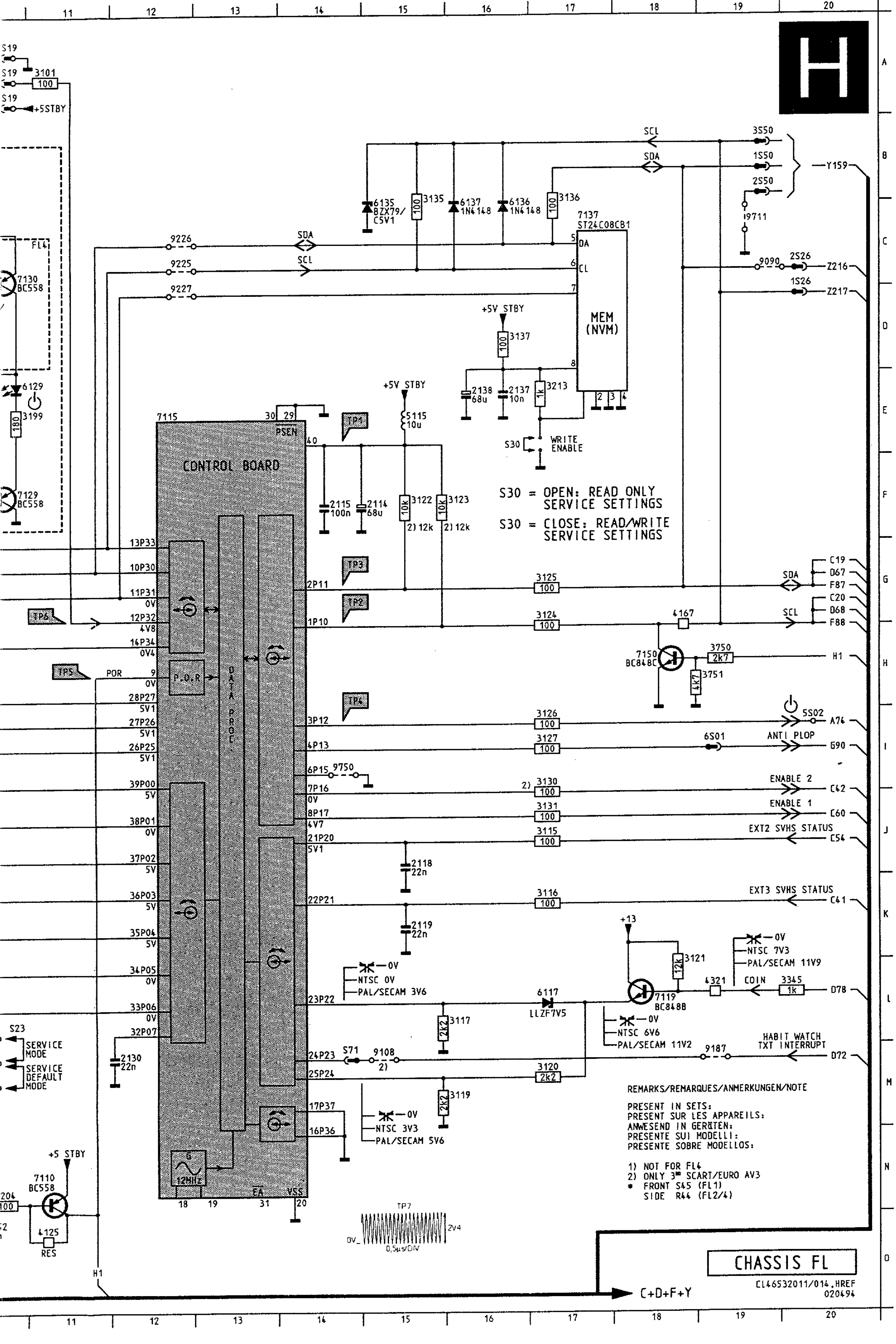
FLx.26/.27 (4:3)


A
SOPS
5230
µSOPS
5255
+11V
-11V
141V (0V)
+141
+13
TP57
TP56
TP60
TP50
V TUNING
3L02
3S02
6L02
6S02
5L02
5S02
7L02
7S02
4L02 POR
4S02
+5 STBY
PROT
START
+V START
V START
17V5
6V7
5V5
6V2
5V6
7241 BD944F
7242 BC635
7551-2A LM358N
7380 BC858C
7381 BC848C
7384 BC847C
7270 BD135
7268 BD533
7273 BC858C
6232 BY229F/200
6230 BY229F/200
6238 RGP30J L7004
6237 RGP30J L7004
6235 BYW29F-100
6260 BAS32L
6262 BYD34G
F92
G3
B2
F93
G2
B6
G6
B1
C18
C55
D62
F55
G99
H74
B5
G4
B204
G36
G7
H75
C202
H73
B+C+D
F+G+H
CHASSIS FLx.26/.27
CL46532015/012.AREF
030294

1200	B 2
1200	E 3
2200	C 2
2200	F 3
2203	B 4
2203	E 4
2210	B 9
2211	C 9
2214	D10
2215	I 9
2216	F10
2230	E15
2231	A12
2232	A13
2233	B12
2234	B13
2235	E12
2236	E12
2237	D12
2238	D12
2254	M 9
2255	N10
2256	O 8
2258	O 6
2260	M12
2261	M12
2262	N12
2263	O12
2270	N15
2272	O15
2380	H14
2381	H13
2386	H15
2552	G15
2556	F17
3201	C11
3201	G 1
3202	I 9
3203	G 5
3204	B 4
3204	C 4
3204	E 5
3204	F 5
3209	C 5
3209	F 6
3210	C 8
3211	B 8
3212	N 6
3213	O 6
3215	A13
3216	G10
3234	E16
3235	E15
3236	F14
3237	E13
3239	C14
3240	D14
3241	D14
3243	F14
3247	F16
3248	E16
3249	M 9
3250	L 8
3250	N 8
3251	N 8
3252	L 9
3253	L 9
3254	N 8
3255	N 9
3256	O 7
3257	O 9
3266	O13
3267	N13
3268	N13
3270	N15
3271	N14
3272	N14
3273	O15
3275	O16
3306	H 8
3376	H12
3380	G14
3381	H14
3382	H16
3383	H16
3385	H16
3550	E16
3562	F16
3563	G16
4274	O16
4L02	O17
5202	F 4
5203	A 5
5203	D 5
5204	A 4
5204	C 3
5204	D 4
5230	A10
5231	A11
5233	B11
5235	E11
5237	D11
5241	D14
5255	L10
5260	L11
5262	N11
5381	H13
6201	N 7
6210	C 9
6211	C 9
6212	C 9
6213	B 9
6216	G 9
6220	H 8
6221	H 8
6230	B12
6232	A12
6235	E12
6237	D12
6238	C12
6247	G14
6251	N 8
6254	M 9
6255	M 9
6260	L12
6262	N12
6266	N13
6272	O14
6306	H 8
6352	I15
6353	I14
6372	K14
6373	K15
6375	F12
6376	H12
6551	F17
7201	O 7
7216	F 9
7241	E13
7242	F14
7250	N 8
7251	O 9
7256	O 9
7268	N13
7270	M14
7273	O15
7274	O16
7380	H13
7381	H14
7384	H15
7551	E15
9048	L12
9204	A 4
9204	E 4
9205	B 5
9205	F 6
9206	C 5
9206	F 6
9207	C 4
9207	F 5
9216	C 6
9217	B 6
9218	B 6
9223	H 8
9234	N16
9239	D13


H
TP2
TP3
TP5
TP6
5V
0V
5ms/DIV
10ms/DIV
20ms/DIV
1001
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
FL1
FL2/FL4
1100
RC-5
RC
3100
1k
5100
47u
2100
150u
+5
3S18
2S18
1S18
1S19
2S19
3S19
3101
100
+5STBY
3F19
2F19
1F19
3128
470
180
7130
BC548C
BC558
6125
BZX79/
C3V9
3125
47
2131
68u
4130
4129
RES
1R20
4F20
3R20
2F20
3188
100
2R20
3F20
4R20
1F20
3189
6128
6129
3198
3199
7128
BC558
7129
P-
P+
INSTALL
3161
3162
3163
3164
3165
3166
3167
7131
7132
7133
7134
7135
7136
7137
BC858
3149
3148
3150
47k
4203
1)
A75
7S02
+5 STBY
3) 3S11
2S11
1S11
4S11
5S11
6S11
7S11
10S11
9S11
8S11
LANGUAGE
PP
STORE
A
B
C
D
E
TO
SAT INTERFACE
TXD=TOMAC
RXD=FROMAC
4S15
3S15
2S15
1S15
RXD
3102
2)
TXD
3103
P
3104
TP6
TP5
POR
13P33
10P30
11P31
12P32
14P34
0V
4V8
0V4
9
28P27
27P26
26P25
5V1
39P00
38P01
37P02
36P03
35P04
34P05
33P06
32P07
5V
8 *
9 *
10 *
7 *
6 *
5 *
4 *
1 *
2 *
3 *
3S44
2S44
1S44
4S44
5S44
6S44
7S44
10S44
9S44
8S44
3134
3138
3139
3140
3141
3142
3143
3144
3145
3146
1k
3157
3169
3158
S23
1
2
3
SERVICE
MODE
SERVICE
DEFAULT
MODE
2130
22n
HEF STROBE
1S05
2S05
3S05
4S05
5S05
6S05
9S05
8S05
7S05
FL1
8911
1L05
2L05
3L05
4L05
5L05
6L05
9L05
8L05
7L05
+5 STBY
7110
BC558
3132
3204
2152
22n
POR 1
4S02
4125
RES
C53
A73
H1
71
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

Controls / Bedienung / Commande


H
CONTROL BOARD
7115
MEM (NVM)
7137 ST24C08CB1
SDA
SCL
+5V STBY
WRITE ENABLE
S30
P.O.R
DATA PROC
12MHz
TP1
TP2
TP3
TP4
TP5
TP6
TP7
0,5µs/DIV
2V4
ANTI PLOP
ENABLE 2
ENABLE 1
EXT2 SVHS STATUS
EXT3 SVHS STATUS
HABIT WATCH TXT INTERRUPT
COIN
NTSC 0V
PAL/SECAM 3V6
NTSC 3V3
PAL/SECAM 5V6
NTSC 6V6
PAL/SECAM 11V2
NTSC 7V3
PAL/SECAM 11V9
SERVICE MODE
SERVICE DEFAULT MODE
7110 BC558
7119 BC848B
7150 BC848C
7129 BC558
7130 BC558
6135 BZX79/C5V1
6136 1N4148
6137 1N4148
6117 LLZF7V5
4125 RES
Y159
Z216
Z217
CHASSIS FL
C+D+F+Y
CL46532011/014.HREF 020494

S30 = OPEN: READ ONLY SERVICE SETTINGS

S30 = CLOSE: READ/WRITE SERVICE SETTINGS

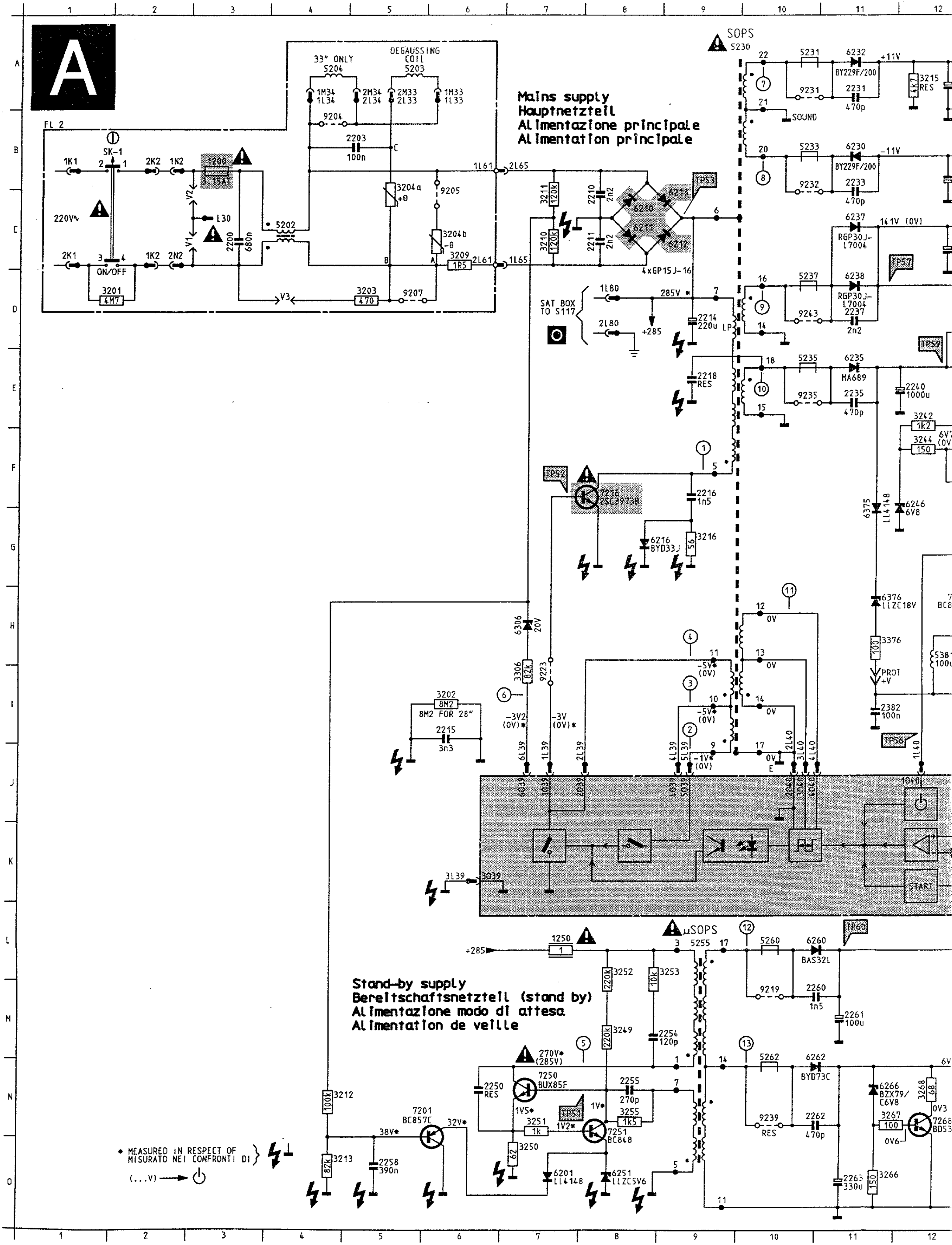
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

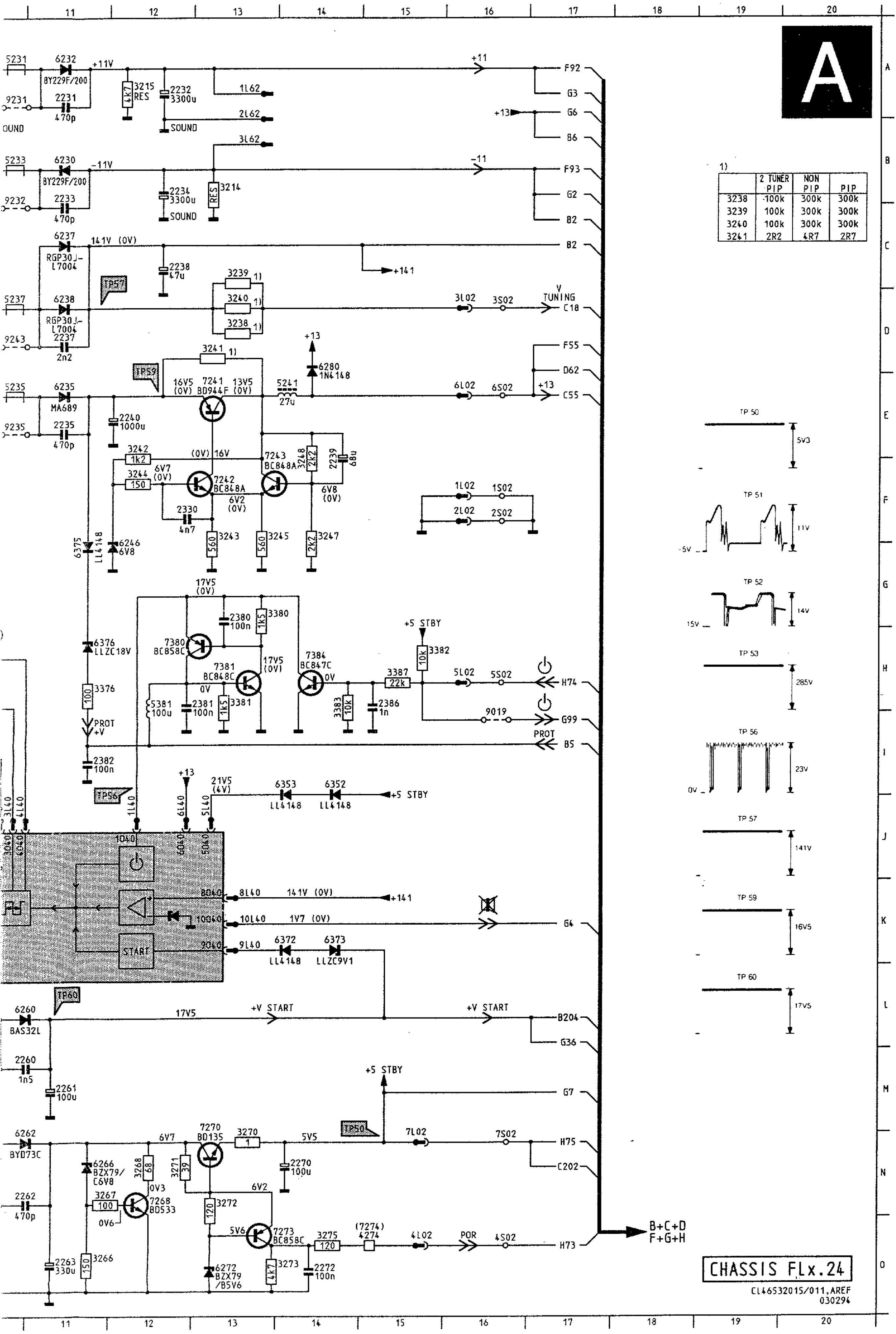
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) NOT FOR FL4
2) ONLY 3^{RD} SCART/EURO AV3
* FRONT S45 (FL1)
SIDE R44 (FL2/4)

S23	L10
S30	E16
1001	A 6
1100	A 8
1100	B 8
2100	B 8
2100	C 8
2114	F15
2115	F14
2118	J15
2119	K15
2130	M12
2131	M 9
2131	D 9
2137	E16
2138	E16
2152	O10
3100	A 9
3100	B 9
3101	A11
3102	G10
3103	G10
3104	H10
3115	J17
3116	K17
3117	L16
3119	M16
3120	M17
3121	K18
3122	F15
3123	F16
3124	G17
3125	D10
3125	G17
3126	I17
3127	I17
3128	M 9
3128	C 9
3128	C10
3130	I17
3131	J17
3132	N10
3134	H 9
3135	B15
3136	B17
3137	D16
3138	I 9
3139	I 9
3140	I 9
3141	J 9
3142	J 9
3143	K 9
3144	K 9
3145	L 9
3146	L 9
3148	H 4
3149	H 4
3150	H 5
3157	L10
3158	M10
3161	F 2
3162	F 3
3163	F 4
3164	F 4
3165	F 5
3166	F 6
3167	F 7
3169	M10
3188	E 9
3189	F 9
3198	E 9
3199	E10
3204	N10
3213	E17
3345	L20
3750	H19
3751	H19
4125	O11
4129	L 8
4129	D 8
4130	D 8
4167	G18
4203	H 5
4321	L19
5100	A 9
5100	C 9
5115	E15
6117	L17
6125	D10
6128	E 9
6129	E10
6135	C15
6136	C16
6137	C16
7110	N11
7115	E12
7119	L18
7128	F 9
7129	F10
7130	M 8
7130	D 9
7130	C10
7131	G 2
7132	G 3
7133	G 4
7134	G 4
7135	G 5
7136	G 6
7137	G 7
7137	C17
7150	H18
8911	M 1
9090	C19
9108	M15
9187	M19
9711	C19
9750	I14

Power supply / Stromversorgung / L'alimentation


A
FL 2
1K1
SK-1
2K2
1N2
1200
3.15AT
220V∿
2K1
ON/OFF
1K2
2N2
3201
4M7
V2
V1
V3
L30
2200
680n
5202
33" ONLY
5204
DEGAUSSING
COIL
5203
1M34
1L34
2M34
2L34
2M33
2L33
1M33
1L33
9204
2203
100n
3204a
+θ
3204b
-θ
9205
3209
1R5
3203
470
9207
1L61
2L61
2L65
1L65
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
3211
120k
3210
120k
2210
2n2
2211
2n2
6210
6211
6212
6213
TP53
4xGP15J-16
SAT BOX
TO S117
1L80
2L80
285V
+285
2214
220u
LP
2218
RES
TP52
7216
2SC3973B
2216
1n5
6216
BYD33J
3216
56
SOPS
5230
5231
6232
BY229F/200
+11V
9231
2231
470p
SOUND
3215
4K7
RES
5233
6230
BY229F/200
-11V
9232
2233
470p
6237
RGP30J-L7004
141V (0V)
TP57
5237
6238
RGP30J-L7004
9243
2237
2n2
TP59
5235
6235
MA689
2240
1000u
9235
2235
470p
3242
1k2
3244
150
6V
(0V
6375
LL4148
6246
6V8
6376
LLZC18V
3376
100
PROT
+V
2382
100n
TP56
538
100
BC8
6306
20V
3306
82k
9223
3202
8M2
8M2 FOR 28"
2215
3n3
-3V2
(0V)*
-3V
(0V)*
-5V*
(0V)
-1V*
(0V)
0V
E
6L39
1L39
2L39
4L39
5L39
2L40
3L40
4L40
1L40
6039
1039
2039
4039
5039
2040
3040
4040
1040
START
3L39
3039
1250
1
+285
µSOPS
5255
5260
6260
BAS32L
TP60
9219
2260
1n5
2261
100u
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
3252
220k
3253
10k
3249
220k
2254
120p
270V*
(285V)
2250
RES
7250
BUX85F
2255
270p
3255
1k5
1V5*
TP51
1V*
3251
1k
1V2*
7251
BC848
3250
62
6201
LL4148
6251
LLZC5V6
7201
BC857C
38V*
32V*
3212
100k
3213
82k
2258
390n
5262
6262
BYD73C
9239
RES
2262
470p
2263
330u
6266
BZX79/C6V8
3268
68
3267
100
7268
BD5
0V3
0V6
3266
150
6V
* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI
(...V)



A
11
12
13
14
15
16
17
18
19
20
5231
6232
BY229F/200
+11V
2231
470p
9231
SOUND
3215
RES
4K7
2232
3300u
1L62
2L62
SOUND
+11
F92
G3
+13
G6
B6
5233
6230
BY229F/200
-11V
2233
470p
9232
3L62
2234
3300u
SOUND
3214
RES
-11
F93
G2
B2
6237
RGP30J-L7004
141V (0V)
2238
47u
B2
+141
TP57
5237
6238
RGP30J-L7004
2237
2n2
9243
3239
3240
3238
1)
3L02
3S02
V TUNING
C18
3241
1)
+13
6280
1N4148
F55
D62
TP59
5235
6235
MA689
9235
2235
470p
16V5 (0V)
7241
BD944F
13V5 (0V)
5241
27u
6L02
6S02
+13
C55
2240
1000u
3242
1k2
(0V) 16V
7243
BC848A
3248
2K2
2239
68u
6V7 (0V)
3244
150
7242
BC848A
6V2 (0V)
6V8 (0V)
2330
4n7
560
3243
560
3245
2K2
3247
1L02
1S02
2L02
2S02
6375
LL4148
6246
6V8
17V5 (0V)
2380
100n
1K5
3380
6376
LLZC18V
7380
BC858C
7381
BC848C
17V5 (0V)
7384
BC847C
0V
+5 STBY
10K
3382
3387
22K
5L02
5S02
H74
3376
100
5381
100u
2381
100n
0V
1K5
3381
3383
10K
2386
1n
9019
G99
PROT +V
PROT
B5
2382
100n
TP56
+13
21V5 (4V)
6353
LL4148
6352
LL4148
+5 STBY
3L40
4L40
1L40
6L40
5L40
3040
4040
1040
6040
5040
8040
8L40
141V (0V)
+141
10040
10L40
1V7 (0V)
G4
9040
9L40
6372
LL4148
6373
LLZC9V1
START
TP60
6260
BAS32L
17V5
+V START
+V START
B204
G36
2260
1n5
2261
100u
+5 STBY
G7
6262
BYD73C
6V7
7270
BD135
3270
1
5V5
TP50
7L02
7S02
H75
C202
6266
BZX79/C6V8
3268
68
3271
39
2270
100u
0V3
6V2
2262
470p
3267
100
7268
BD533
0V6
3272
120
5V6
7273
BC858C
3275
120
(7274)
4274
4L02
POR
4S02
H73
B+C+D
F+G+H
2263
330u
3266
150
6272
BZX79/B5V6
3273
4K7
2272
100n
TP 50
5V3
TP 51
11V
-5V
TP 52
14V
15V
TP 53
285V
TP 56
23V
0V
TP 57
141V
TP 59
16V5
TP 60
17V5
B
C
D
E
F
G
H
I
J
K
L
M
N
O

1)

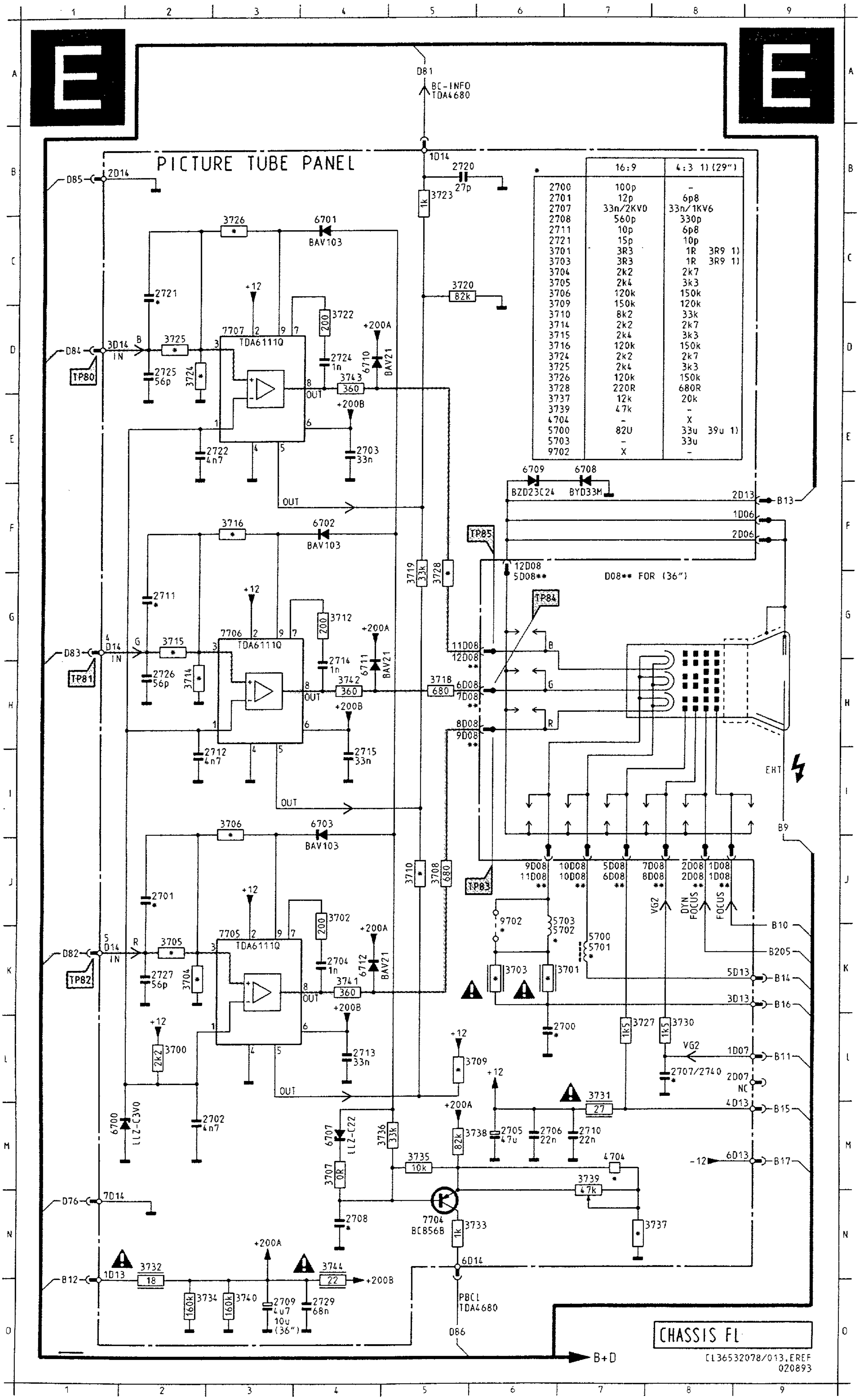
	2 TUNER PIP	NON PIP	PIP
3238	-100k	300k	300k
3239	100k	300k	300k
3240	100k	300k	300k
3241	2R2	4R7	2R7

CHASSIS FLx.24

CL46532015/011,AREF
030294

(727	O15	6262	N11
1200	B 3	6266	N11
1200	B 3	6272	O13
1250	L 7	6280	D14
2200	C 3	6306	H 7
2200	C 3	6352	I14
2203	B 5	6353	I14
2203	B 5	6372	K14
2210	C 8	6373	K14
2211	C 8	6375	G11
2214	D 9	6376	H11
2215	I 6	7201	N 6
2216	F 9	7216	F 8
2218	E 9	7241	E13
2231	A11	7242	F13
2232	A12	7243	F13
2233	B11	7250	N 7
2234	B12	7251	N 8
2235	E11	7268	N12
2237	D11	7270	M13
2238	C12	7273	O13
2239	E14	7380	H12
2240	E12	7381	H13
2250	N 6	7384	H14
2254	M 9	9019	I16
2255	N 8	9204	B 4
2258	O 5	9205	C 6
2260	M11	9205	C 6
2261	M11	9207	C 5
2262	N11	9207	D 5
2263	O11	9218	B 5
2270	N14	9219	M10
2272	O14	9223	I 7
2330	F12	9231	A10
2380	G13	9232	B10
2381	H12	9235	E10
2382	I11	9239	N10
2386	H15	9243	D10
3201	D 1		
3201	D 1		
3202	I 6		
3203	D 5		
3204	B 5		
3204	C 5		
3204	B 5		
3204	C 6		
3209	C 6		
3209	C 6		
3210	C 7		
3211	C 7		
3212	N 4		
3213	O 4		
3214	B13		
3215	A12		
3216	G 9		
3238	D13		
3239	C13		
3240	D13		
3241	D13		
3242	E12		
3243	F13		
3244	F12		
3245	F13		
3247	F14		
3248	E14		
3249	M 8		
3250	O 7		
3251	N 7		
3252	L 8		
3253	L 9		
3255	N 8		
3266	O11		
3267	N11		
3268	N12		
3270	N13		
3271	N12		
3272	N13		
3273	O14		
3275	O14		
3306	I 7		
3376	H11		
3380	G13		
3381	H13		
3382	H15		
3383	H14		
3387	H15		
5202	C 4		
5203	A 5		
5203	A 5		
5204	C 4		
5204	A 4		
5204	A 4		
5230	A 9		
5231	A10		
5233	B10		
5235	E10		
5237	D10		
5241	E14		
5255	L 9		
5260	L10		
5262	N10		
5381	H12		
6201	O 7		
6210	C 8		
6211	C 8		
6212	C 9		
6213	C 9		
6216	G 8		
6230	B11		
6232	A11		
6235	E11		
6237	C11		
6238	D11		
6246	G12		
6251	O 8		
6260	L11		

Picture tube panel / Bildröhren Platte /

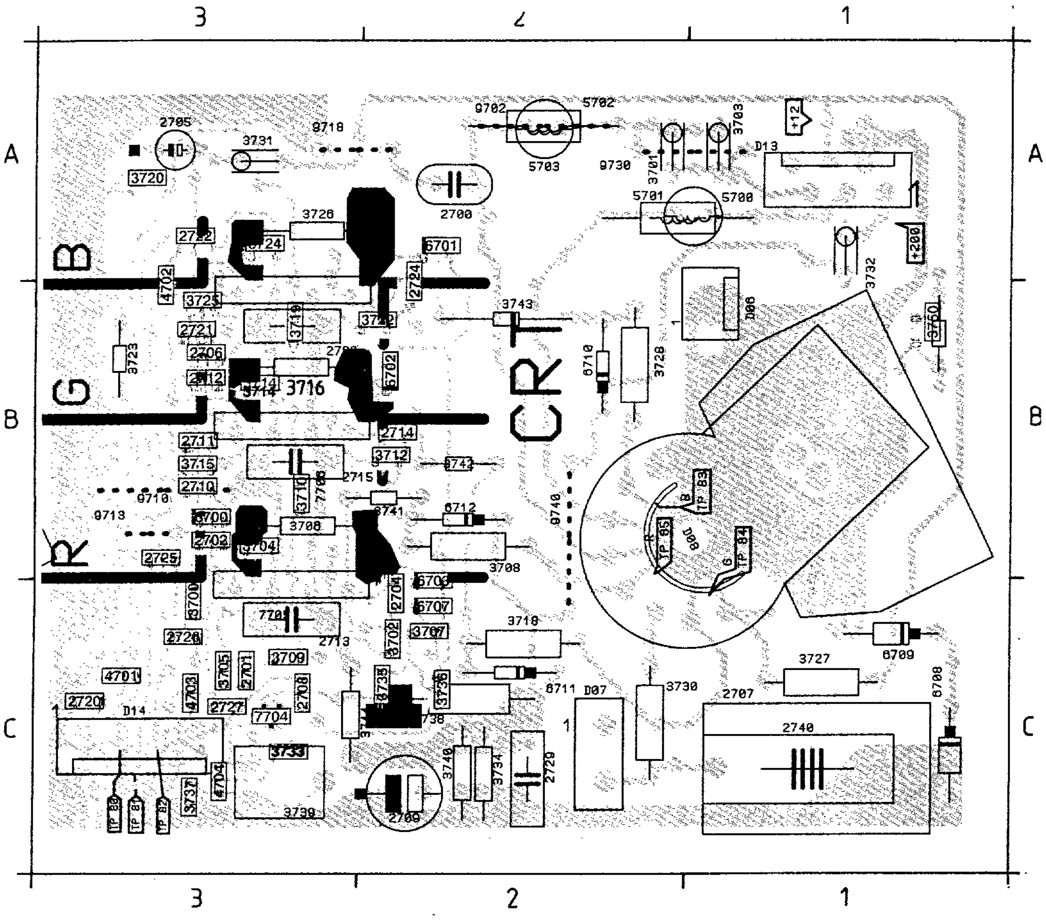

E
E
PICTURE TUBE PANEL
D81
BC-INFO
TDA4680
1D14
2720
27p
3723
1k
3720
82k
D85
2D14
D84
3D14
IN
TP80
D83
4 D14
IN
TP81
D82
5 D14
IN
TP82
D76
7D14
B12
1D13
3726
6701
BAV103
3716
6702
3706
6703
2721
2711
2701
3725
3715
3705
2725
56p
2726
2727
3724
3714
3704
7707
TDA6111Q
7706
7705
+12
3722
3712
3702
200
+200A
+200B
2724
1n
2714
2704
6710
6711
6712
BAV21
3743
3742
3741
360
OUT
2722
4n7
2712
2702
2703
33n
2715
2713
3719
33k
3728
3710
3708
680
3718
TP85
TP84
TP83
12D08
5D08**
D08** FOR (36")
11D08
12D08
6D08
7D08
8D08
9D08
B
G
R
6709
BZD23C24
6708
BYD33M
2D13
B13
1D06
2D06
EHT
B9
9D08
11D08
10D08
10D08
5D08
6D08
7D08
8D08
2D08
2D08
1D08
1D08
VG2
DYN FOCUS
FOCUS
B10
B205
9702
5703
5702
5700
5701
3703
3701
5D13
B14
3D13
B16
2700
3727
1k5
3730
VG2
1D07
B11
2707/2740
2D07
NC
4D13
B15
3731
27
6D13
B17
-12
3700
2k2
6700
LLZ-C3V0
6707
LLZ-C22
3736
3709
3738
82k
2705
47u
2706
22n
2710
22n
4704
3739
47k
3735
10k
3707
0R
7704
BC856B
3733
3737
2708
6D14
PBCL
TDA4680
D86
3732
18
3734
160k
3740
2709
4u7
10u (36")
2729
68n
3744
22
+200B
B+D
CHASSIS FL
CL36532078/013.EREF
020893

*	16:9	4:3 1) (29")
2700	100p	-
2701	12p	6p8
2707	33n/2KV0	33n/1KV6
2708	560p	330p
2711	10p	6p8
2721	15p	10p
3701	3R3	1R 3R9 1)
3703	3R3	1R 3R9 1)
3704	2k2	2k7
3705	2k4	3k3
3706	120k	150k
3709	150k	120k
3710	8k2	33k
3714	2k2	2k7
3715	2k4	3k3
3716	120k	150k
3724	2k2	2k7
3725	2k4	3k3
3726	120k	150k
3728	220R	680R
3737	12k	20k
3739	47k	-
4704	-	X
5700	82U	33u 39u 1)
5703	-	33u
9702	X	-

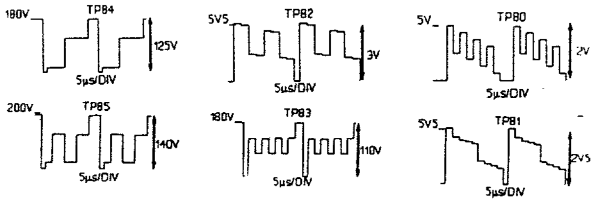
2700	K 6
2701	J 2
2702	M 2
2703	L 4
2704	K 4
2705	M 6
2706	M 6
2707	L 8
2708	N 4
2709	E 7
2710	M 7
2711	G 2
2712	I 2
2713	E 4
2714	H 4
2715	I 4
2720	B 5
2721	C 2
2722	E 2
2724	D 4
2725	D 2
2726	H 2
2727	K 2
2729	E 6
3700	L 2
3701	K 6
3702	J 4
3703	K 6
3704	K 2
3705	K 2
3706	I 3
3707	M 4
3708	J 5
3709	L 5
3710	J 5
3712	G 4
3714	H 2
3715	G 2
3716	F 3
3718	H 5
3719	G 5
3720	C 5
3722	D 4
3723	B 5
3724	D 2
3726	C 3
3727	K 7
3728	G 5
3730	K 8
3731	L 7
3732	D 8
3733	N 5
3734	E 8
3735	M 5
3736	M 5
3737	N 6
3738	M 5
3739	M 6
3740	E 7
3741	K 4
3742	H 4
3743	D 4
3744	D 6
4709	I 2
5700	J 7
6700	M 1
6701	C 4
6702	F 4
6703	I 4
6707	M 4
6708	E 7
6709	E 6
6710	D 4
6711	H 4
6712	K 4
7704	N 5
7705	K 3
7706	G 3
7707	D 3

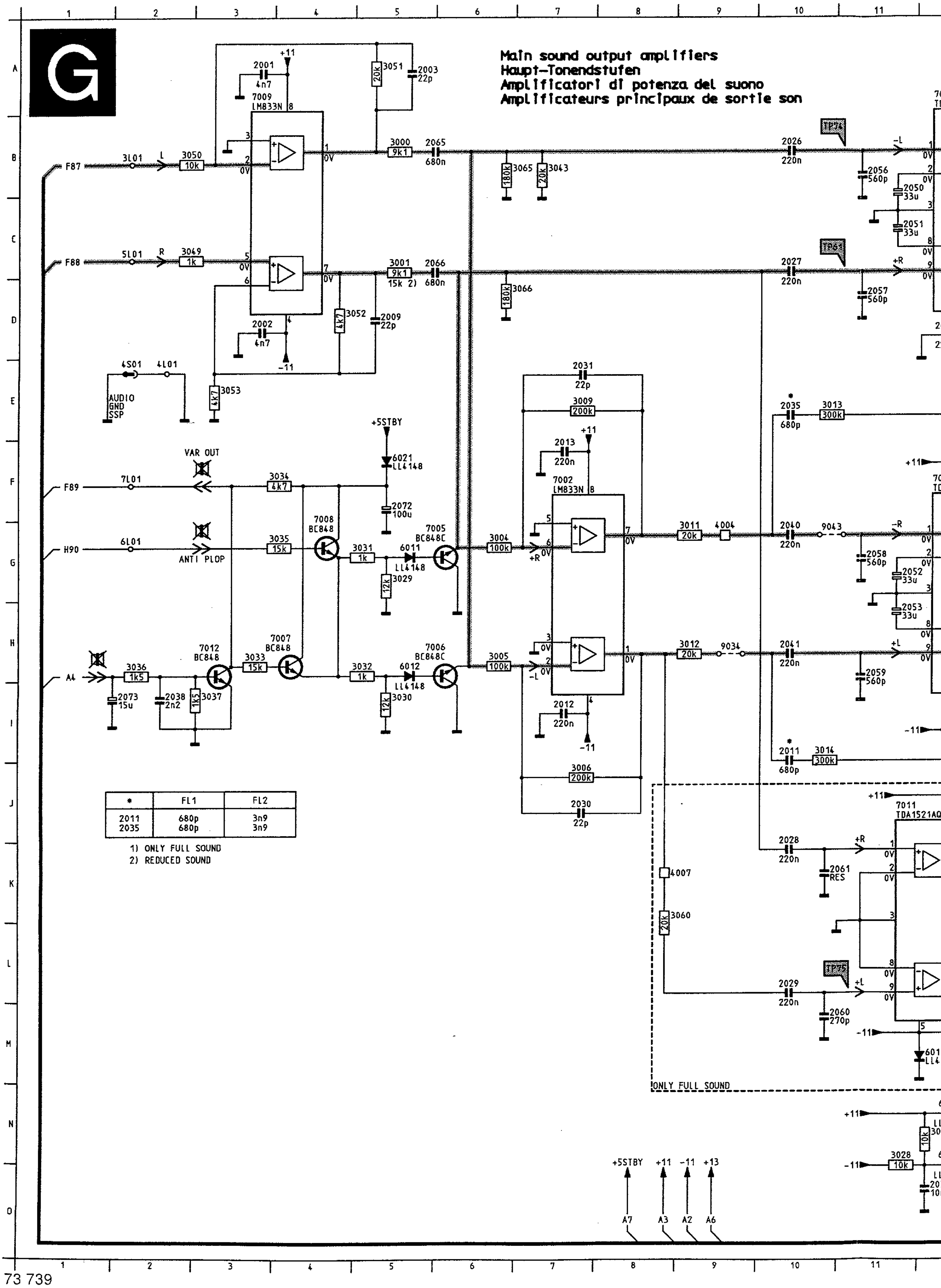
Platines Tube-image

K 6
J 2
M 2
L 4
K 4
M 6
M 6
L 8
N 4
E 7
M 7
G 2
I 2
E 4
H 4
I 4
B 5
C 2
E 2
D 4
D 2
H 2
K 2
E 6
L 2
K 6
J 4
K 6
K 2
K 2
I 3
M 4
J 5
L 5
J 5
G 4
H 2
G 2
F 3
H 5
G 5
C 5
D 4
B 5
D 2
C 3
K 7
G 5
K 8
L 7
D 8
N 5
E 8
M 5
M 5
N 6
M 5
M 6
E 7
K 4
H 4
D 4
D 6
I 2
J 7
M 1
C 4
F 4
I 4
M 4
E 7
E 6
D 4
H 4
K 4
N 5
K 3
G 3
D 3


3
2
1
A
B
C
CRT
B
G
R
2705
3731
9718
9702
5702
5703
9730
3701
3703
D13
+12
+200
3720
3726
2700
5701
5700
2722
3724
6701
2724
4702
3725
3743
3719
3722
D06
3732
3750
2721
3723
2706
2709
6702
6710
3728
2712
3714
3716
2711
2714
3715
3712
3742
2710
2715
7706
9710
9713
3741
6712
9740
3700
2703
3708
3704
TP 85
D08
TP 83
TP 84
2725
3709
6700
6707
3707
3718
7704
2713
2726
4701
3705
2701
2708
3735
3736
6711
D07
3730
2707
3727
6709
6708
2720
D14
4703
2727
7704
3738
2740
3733
3740
3734
2729
TP 80
TP 81
TP 82
3737
4704
3739
2709

D06	B1
D07	C2
D08	B1
D13	A1
D14	C3
2700	A2
2701	C3
2702	B3
2703	B3
2704	C2
2705	A3
2706	B3
2707	C1
2708	C3
2709	C2
2710	B3
2711	B3
2712	B3
2713	C3
2714	B2
2715	B3
2720	C3
2721	B3
2722	A3
2724	B2
2725	B3
2726	C3
2727	C3
2729	C2
2740	C1
3700	C3
3701	A2
3702	C2
3703	A1
3704	B3
3705	C3
3706	B3
3707	C2
3708	B2
3709	C3
3710	B3
3712	B2
3714	B3
3715	B3
3716	B3
3718	C2
3719	B3
3720	A3
3722	B2
3723	B3
3724	A3
3725	B3
3726	A3
3727	C1
3728	B2
3730	C2
3731	A3
3732	A1
3733	C3
3734	C2
3735	C2
3736	C2
3738	C2
3739	C3
3740	C2
3741	B2
3742	B2
3743	B2
3744	C3
3750	B1
3751	B1
4701	C3
4702	B3
4703	C3
4704	C3
5700	A1
5701	A2
5702	A2
5703	A2
6700	B3
6701	A2
6702	B2
6703	C2
6707	C2
6708	C1
6709	C1
6710	B2
6711	C2
6712	B2
7704	C3
7705	C3
7706	B3
7707	B3
9702	A2
9710	B3
9713	B3
9718	A3
9730	A1
9740	B2

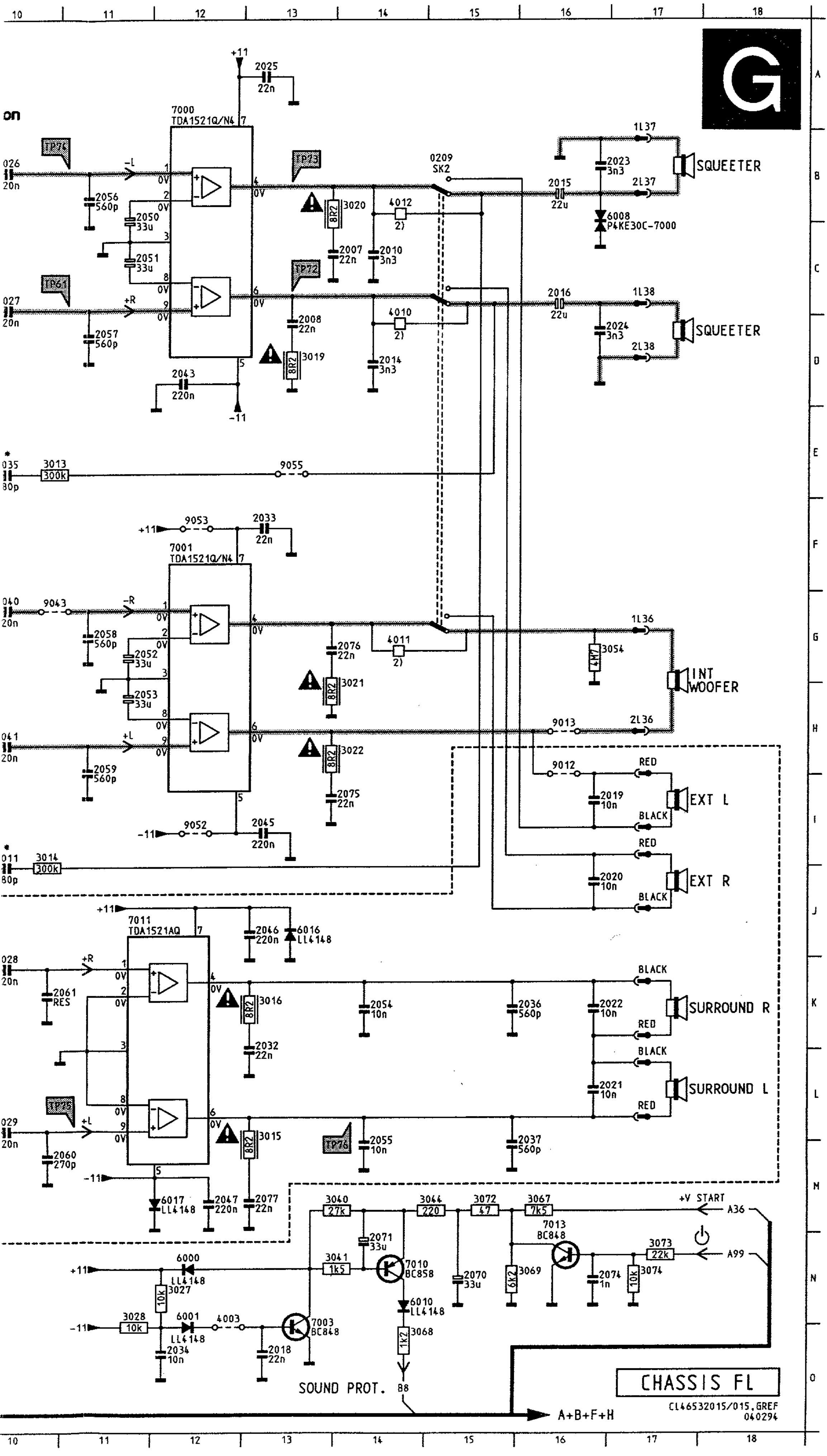



G
Main sound output amplifiers
Haupt-Tonendstufen
Amplificatori di potenza del suono
Amplificateurs principaux de sortie son
F87
F88
F89
H90
A4
3L01
5L01
7L01
6L01
4S01
4L01
AUDIO GND SSP
VAR OUT
ANTI PLOP
3050 10k
3049 1k
2001 4n7
2002 4n7
7009 LM833N
3051 20k
2003 22p
3000 9k1
2065 680n
3001 9k1 15k 2)
2066 680n
3052 4k7
2009 22p
3053 4k7
3065 180k
3043 20k
3066 180k
+5STBY
6021 LL4148
2072 100u
3034 4k7
3035 15k
7008 BC848
3031 1k
6011 LL4148
3029 12k
7005 BC848C
7012 BC848
3036 1k5
2073 15u
2038 2n2
3037 1k5
3033 15k
7007 BC848
3032 1k
6012 LL4148
3030 12k
7006 BC848C
2031 22p
3009 200k
2013 220n
7002 LM833N
3004 100k
3005 100k
2012 220n
3006 200k
2030 22p
3011 20k
4004
3012 20k
9034
4007
3060 20k
ONLY FULL SOUND
2026 220n
2027 220n
TP76
TP61
TP75
2056 560p
2057 560p
2050 33u
2051 33u
2035 680p
3013 300k
2040 220n
9043
2058 560p
2052 33u
2053 33u
2041 220n
2059 560p
2011 680p
3014 300k
7011 TDA1521AQ
2028 220n
2061 RES
2029 220n
2060 270p
3028 10k
+11
-11
+13
A7
A3
A2
A6
+L
-L
+R
-R
0V
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O

*	FL1	FL2
2011 2035	680p 680p	3n9 3n9

1) ONLY FULL SOUND
2) REDUCED SOUND

Amplificateur audio

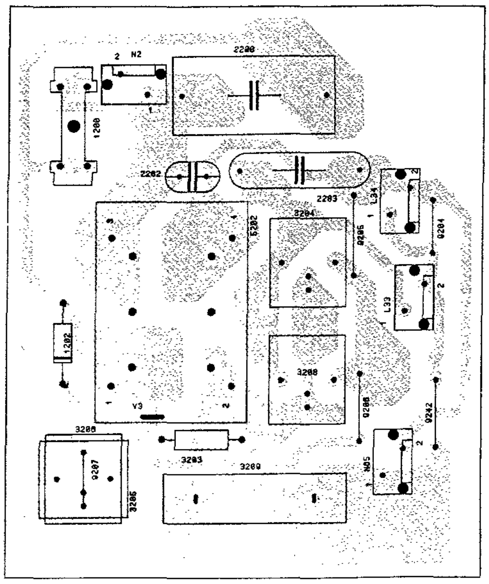

G
7000
TDA1521Q/N4
7001
TDA1521Q/N4
7011
TDA1521AQ
7003
BC848
7010
BC858
7013
BC848
0209
SK2
SQUEETER
SQUEETER
INT
WOOFER
EXT L
EXT R
SURROUND R
SURROUND L
RED
BLACK
1L37
2L37
1L38
2L38
1L36
2L36
6008
P6KE30C-7000
6000
LL4148
6001
LL4148
6010
LL4148
6016
LL4148
6017
LL4148
TP76
TP61
TP73
TP72
TP25
TP74
+11
-11
+V START
A36
A99
SOUND PROT.
B8
A+B+F+H
CHASSIS FL
CL46532015/015.GREF
040294

0209	B15	6011	G 5
2001	A 3	6012	H 5
2002	D 3	6016	J13
2003	A 5	6017	M12
2007	C14	6021	F 5
2008	D13	7000	A12
2009	D 5	7001	F12
2010	C14	7002	F 7
2011	I10	7003	O13
2012	I 7	7005	G 5
2013	F 7	7006	H 5
2014	D14	7007	H 3
2015	B16	7008	G 4
2016	C16	7009	A 3
2018	O13	7010	N14
2019	I16	7011	J11
2020	J16	7012	H 3
2021	L16	7013	M16
2022	K16	9012	H16
2023	B16	9013	H16
2024	D16	9034	H 9
2025	A13	9043	G10
2026	B10	9052	I12
2027	C10	9053	F12
2028	K10	9055	E13
2029	L10		
2030	J 7		
2031	E 7		
2032	K13		
2033	F13		
2034	O12		
2035	E10		
2036	K16		
2037	M16		
2038	I 2		
2040	G10		
2041	H10		
2043	D12		
2045	I13		
2046	J13		
2047	M12		
2050	B11		
2051	C11		
2052	G11		
2053	H11		
2054	K14		
2055	M14		
2056	B11		
2057	D11		
2058	G11		
2059	H11		
2060	M10		
2061	K10		
2065	B 5		
2066	C 5		
2070	N15		
2071	N14		
2072	F 5		
2073	I 2		
2074	N16		
2075	I14		
2076	G14		
2077	M13		
3000	B 5		
3001	C 5		
3004	G 6		
3005	H 6		
3006	J 7		
3009	E 7		
3011	G 9		
3012	H 9		
3013	E10		
3014	I10		
3015	L13		
3016	K13		
3019	D13		
3020	B14		
3021	G14		
3022	H14		
3027	N12		
3028	N11		
3029	G 5		
3030	I 5		
3031	G 5		
3032	H 5		
3033	H 3		
3034	F 4		
3035	G 4		
3036	H 2		
3037	I 3		
3040	M14		
3041	N14		
3043	B 7		
3044	M15		
3049	C 2		
3050	B 2		
3051	A 5		
3052	D 4		
3053	E 3		
3054	G16		
3060	K 8		
3065	B 6		
3066	D 6		
3067	M16		
3068	O14		
3069	N16		
3072	M15		
3073	N17		
3074	N17		
4003	N12		
4004	G 9		
4007	K 8		
6000	N12		
6001	N12		
6008	B16		
6010	N14		

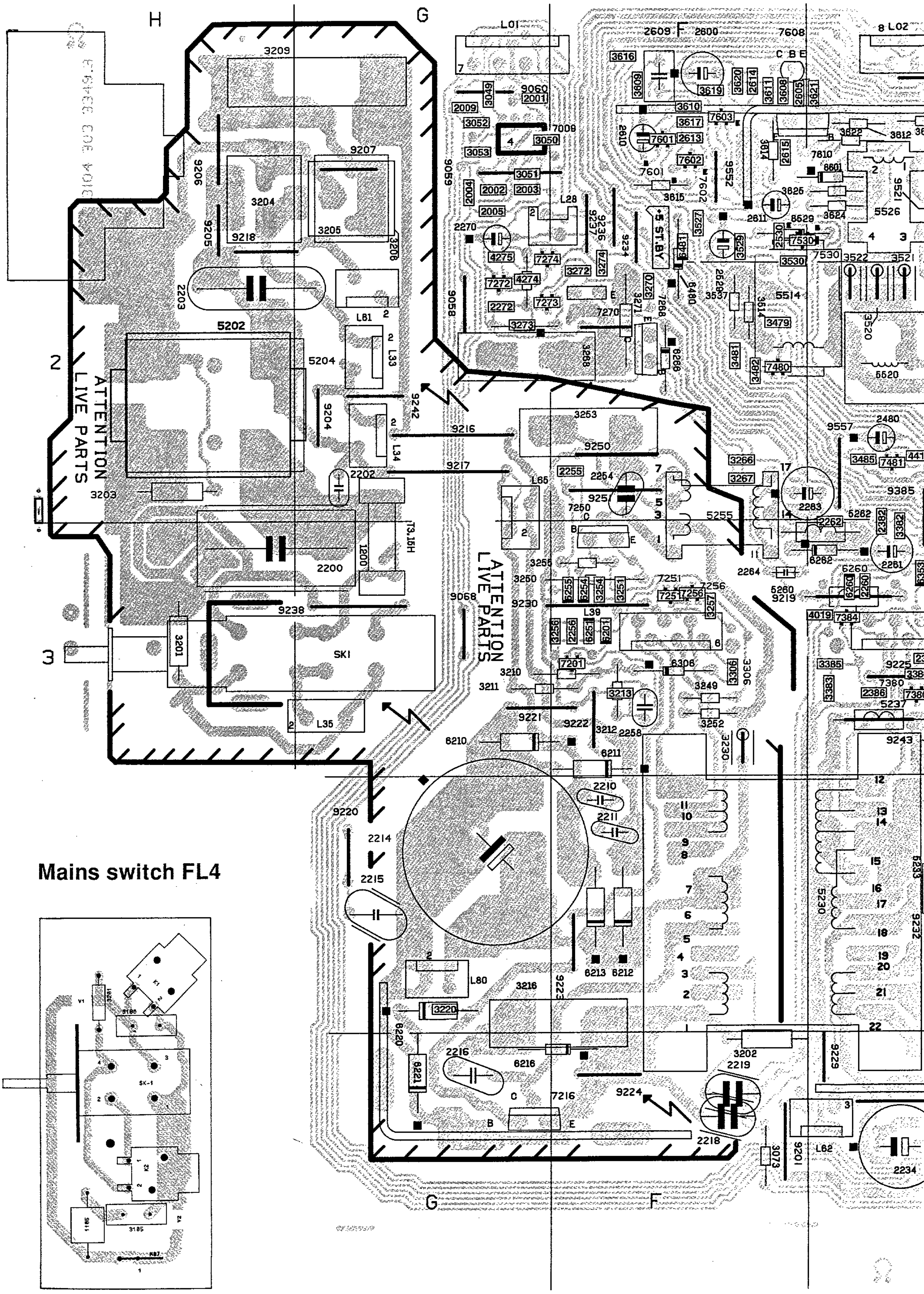
Large signal panel FLx.26/.27 /

L01	F1
L02	E1
L03	A1
L08	C4
L13	C4
L27	B3
L28	G1
L30	A1
L31	E2
L33	G2
L34	G2
L35	G3
L36	A2
L37	A3
L38	A2
L39	F3
L40	E3
L61	G2
L62	E5
L65	G2
L67	D4
L68	C3
L69	A2
L80	G4
L87	B2
SK1	G3
SK2	B3
0207	A4
0211	A3
039	H5
040	H4
1200	G3
2001	G1
2002	G1
2003	G1
2004	G1
2005	G1
2007	B5
2008	B5
2009	G1
2010	A4
2011	D5
2012	C5
2013	C5
2014	A3
2015	A3
2016	A3
2018	A5
2019	A4
2020	A4
2021	A4
2022	A4
2023	A3
2024	A3
2025	C5
2026	B5
2027	C5
2028	B5
2029	B5
2030	C5
2031	C5
2032	B5
2033	D5
2034	A5
2035	C5
2036	A4
2037	A4
2038	D4
2039	A4
2040	D5
2041	D5
2042	C5
2043	C5
2044	D5
2045	D5
2046	B5
2047	B5
2048	B1
2049	A4
2050	C5
051	C5
052	D5
2053	D5
2054	B5
2055	B5
2056	C5
2057	C5
2058	D5
2059	D5
2060	B5
2061	B5
2065	C4
2066	D5
2070	A4
2071	A5
2072	D4
2073	D4
2074	A5
2200	H3
2202	G2
2203	H2
2210	F4
2211	F4
2214	G4
2215	G4
2216	G5
2218	F5
2219	F5
2230	B4
2231	E4
2232	E5
2233	E4
2234	E5
2235	D3
2236	D4
2237	E3
2238	D4
2240	D4
2241	B4
2242	B4
2250	F3
2254	F2
2255	F3
2258	F3
2259	F3
2260	E3
2261	E3
2262	E3
2263	E2
2270	G1
2272	G2
2302	H5
2303	H5
2308	H5
2321	H5
2331	H4
2351	H4
2360	H4
2361	H4
2365	H4
2372	H4
2374	H4
2376	H4
2380	E3
2381	E3
2382	E3
2386	E3
2401	B3
2402	A2
2403	A2
2404	A2
2405	A2
2406	B3
2407	B2
2408	C3
2409	B2
2410	B2
2411	B2
2412	C3
2415	A3
2416	B3
2417	B3
2418	A3
2419	A2
2450	A1
2451	B1
2452	B1
2454	A2
2455	B1
2456	A2
2457	A2
2458	B1
2459	B1
2460	B1
2480	E2
2502	B2
2503	B2
2504	D1
2505	D1
2509	D2
2511	C2
2512	C3
2513	C3
2517	C3
2518	C3
2519	E2
2520	D2
2521	D1
2522	D1
2523	C1
2524	D1
2526	C1
2527	C1
2528	C1
2529	F1
2530	F1
2531	D3
2533	D3
2534	D3
2535	C4
2536	D3
2537	D3
2541	D4
2542	C4
2543	C4
2545	C4
2546	D2
2547	C2
2552	B4
2553	B4
2554	D4
2555	B3
2556	B4
2600	F1
2601	B2
2603	C2
2604	B2
2605	F1
2606	C3
2607	B3
2609	F1
2610	F1
2611	F1
2613	F1
2614	F1
2626	A2
3000	D4
3001	D5
3004	C5
3005	D5
3006	C5
3008	C5
3009	C5
3011	C5
3012	C5
3013	D4
3014	D4
3016	B5
3019	B5
3020	B5
3021	B5
3022	B5
3027	A5
3028	A5
3029	D5
3030	D5
3031	D5
3032	D5
3033	D4
3034	D4
3035	D5
3036	D4
3037	D4
3040	A5
3041	A5
3042	A5
3043	C4
3044	A5
3049	G1
3050	G1
3051	G1
3052	G1
3053	G1
3054	A2
3060	B5
3061	B5
3065	C4
3066	C5
3067	A4
3068	A4
3069	A4
3072	A5
3073	F5
3074	A5
3201	H3
3202	F5
3203	H2
3204	H1
3205	G1
3206	G1
3209	G1
3210	F3
3211	G3
3212	F3
3213	F3
3214	E5
3215	E5
3216	F4
3220	G4
3230	F3
3234	B4
3235	B4
3236	B4
3237	C4
3238	C4
3239	D3
3240	E3
3241	B4
3243	B4
3245	B4
3246	E1
3247	B4
3248	B4
3249	F3
3250	F3
3251	F3
3252	F3
3253	F2
3255	F3
3266	F2
3267	F2
3268	G2
3270	F2
3271	F2
3272	F2
3273	G2
3274	G1
3275	G2
3298	F5
3299	F5
3300	H5
3304	H5
3305	H5
3306	F3
3308	H5
3309	H5
3310	H5
3311	H5
3312	H5
3313	H5
3314	H5
3317	H5
3320	H5
3321	H5
3322	H5
3331	H4
3332	H4
3350	H4
3351	H4
3356	H4
3357	H4
3358	H4
3360	H4
3362	H4
3364	H4
3365	H4
3366	H4
3368	H4
3369	H4
3370	H4
3371	H4
3372	H4
3374	H4
3375	H4
3376	E3
3378	H4
3380	E3
3381	E3
3382	E3
3383	E3
3385	E3
3402	A2
3403	A2
3404	B2
3405	B3
3406	B3
3407	B3
3408	B3
3409	B3
3410	B3
3411	B2
3412	B3
3413	B3
3414	B3
3415	B3
3416	B3
3417	B3
3418	B3
3419	B3
3420	B3
3421	B3
3422	B3
3423	B3
3424	B2
3425	B3
3426	A2
3427	B3
3428	C3
3429	B3
3430	B3
3431	B3
3437	A1
3438	B2
3439	B3
3440	B1
3441	B3
3442	B3
3443	C3
3444	B2
3446	B2
3450	A1
3451	A1
3452	B1
3455	A1
3456	A2
3457	A2
3458	A1
3459	A1
3460	B1
3461	A1
3462	A1
3463	A1
3464	A1
3465	A2
3466	A1
3467	B2
3468	A1
3469	A1
3470	A1
3471	A1
3473	B1
3474	A2
3479	F2
3480	B1
3481	F2
3482	F2
3483	B3
3484	B3
3485	E2
3490	B3
3500	B2
3501	B2
3502	B1
3503	B1
3504	D1
3505	D1
3506	C1
3507	D1
3508	C2
3509	C2
3510	D1
3512	C3
3513	C3
3514	F2
3515	C2
3516	C2
3517	C2
3518	E2
3519	E2
3520	E2
3521	E2
3522	E2
3524	D1
3525	C4
3526	C1
3527	F1
3528	D3
3529	F1
3530	F2
3532	C3
3533	C3
3534	D3
3535	D3
3536	D3
3537	F2
3538	D3
3539	D1
3540	C4
3541	C4
3542	C4
3543	C4
3544	C4
3545	E2
3546	C4
3547	C2
3548	D2
3549	D2
3550	B4
3553	B4
3554	B4
3555	B3
3556	B3
3557	C4
3558	B3
3559	B4
3560	C3
3561	C3
3562	B4
3563	B4
3600	B2
3601	C2
3602	B2
3603	B2
3604	B2
3605	C3
3606	B2
3607	B2
3608	F1
3609	F1
3610	F1
3611	F1
3612	E1
3614	F1
3615	F1
3616	F1
3617	F1
3618	B2
3619	F1
3620	F1
3621	E1
3622	E1
3623	E1
3624	E1
3625	E1
3626	B2
3627	A1
3628	A1
3629	B2
3630	A2
3631	A2
3632	C3
3633	A2
3634	A1
4000	A5
4001	D5
4002	B5
4003	A5
4004	C5
4005	C5
4006	D5
4007	C5
4010	A3
4011	B3
4012	A3
4019	E3
4039	B1
4274	G2
4400	B1
4410	B2
4411	B2
4412	B2
4413	B3
4415	E2
4416	B2
4417	B2
4420	A2
4421	B2
4465	A1
4466	A1
4467	A1
4468	B2
4469	A1
4507	D4
4517	B3
4518	B4
4519	C3
4521	C4
4522	C4
4524	C4
4525	C4
4527	D3
4528	D4
4529	D4
4530	D2
4531	D2
4533	C2
4534	C3
4535	C1
4536	C1
4537	C3
4538	C3
5204	H2
5230	F4
5231	E5
5233	E4
5235	E4
5237	E3
5241	C4
5255	F3
5260	E3
5262	E3
5308	H5
5310	H5
5381	E3
5503	B1
5504	C1
5506	C1
5510	D1
5511	D3
5514	F2
5520	E2
5521	E1
5522	E2
5524	D1
5525	C4
5526	E1
5527	C1
5528	C2
5534	D3
5536	D3
5543	D4
5548	D1
5555	D3
6000	A5
6001	A5
6008	A3
6010	A5
6011	D5
6012	D5
6016	B5
6017	E4
6021	D4
6201	F3
6210	G3
6211	F3
6212	F4
6213	F4
6216	F5
6220	G4
6221	G5
6230	E4
6231	E4
6232	E4
6233	E4
6235	D3
6237	E3
6238	E3
6247	B4
6251	F3
6260	E3
6262	E3
6266	F2
6272	G2
6280	C4
6302	H5
6303	H5
6304	H5
6305	H5
6306	F3
6308	H5
6312	H5
6314	H5
6315	H5
6318	H5
6319	H5
6321	F3
6331	H4
6349	H4
6350	H4
6351	H4
6352	E3
6353	E3
6355	H4
6356	H4
6357	H4
6370	H4
6371	H4
6372	E3
6373	E3
6375	E3
6376	E3
6402	B3
6403	C3
6404	C3
6405	B1
6417	B3
6440	B3
6441	B3
6451	B1
6452	B1
6453	B1
6465	A1
6466	A1
6467	A1
6480	F1
6481	F1
6504	D1
6506	C1
6507	B4
6515	C3
6516	C3
6517	C3
6519	E2
6520	E2
6526	C1
6527	C1
6529	F1
6535	D3
6536	C3
6538	B2
6542	C4
6546	C2
6547	D3
6551	B4
6601	E1
6629	B2
7000	C5
7001	D5
7002	C5
7003	A5
7005	D5
7006	D5
7007	D5
7008	D5
7009	G1
7010	A5
7011	B5
7012	D4
7013	A5
7201	F3
7216	G5
7241	B4
7242	B4
7246	E1
7250	F3
7251	F3
7268	F2
7270	F2
7272	G2
7273	F2
7274	G1
7305	H5
7311	H5
7312	H5
7318	H5
7320	H4
7321	F3
7360	H4
7369	H4
7370	H4
7371	H4
7380	E3
7381	E3
7384	E3
7400	B3
7402	C3
7403	A1
7407	B3
7417	B3
7444	B2
7445	B2
7450	A1
7451	A1
7469	B2
7480	F2
7481	E2
7501	B2
7504	D1
7506	D1
7512	C3
7513	C3
7530	F1
7540	C4
7541	C4
7542	C4
7543	D2
7550	D3
7551	B4
7552	B4
7601	F1
7602	F1
7603	F1
7608	F1
7610	E1
7616	A1
7618	A2
9000	A4
9001	C5
9002	A3
9003	A4
9008	B5
9010	C5
9012	A4
9013	A4
9015	B4
9017	B5
9020	D5
9022	A3
9023	A4
9024	A4
9025	A5
9026	A4
9027	A5
9028	A5
9029	B5
9031	C4
9032	C5
9033	C5
9034	C5
9035	A4
9036	A4
9037	B3
9038	B3
9039	B1
9041	C4
9042	C4
9043	D5
9045	D4
9046	D4
9047	E5
9048	D4
9050	A3
9051	D4
9052	D4
9053	D5
9054	D4
9055	A4
9056	A4
9057	C5
9058	G2
9059	G1
9060	G1
9063	B5
9064	B5
9065	B4
9066	B5
9067	A3
9068	G3
9200	E5
9201	F5
9202	D3
9203	D4
9204	G2
9205	H1
9206	H1
9207	G1
9216	G2
9217	G2
9218	H1
9219	E3
9220	G4
9221	G3
9222	F3
9223	F4
9224	F5
9225	E3
9228	E4
9229	E5
9230	F3
9231	E5
9232	E4
9233	F2
9234	F1
9235	E4
9236	F1
9237	F1
9238	G3
9239	B4
9240	B4
9241	E3
9242	G2
9243	E3
9244	B4
9246	E1
9250	F2
9251	F2
9300	H5
9302	H4
9385	E2
9400	C1
9401	B2
9402	B3
9405	A1
9406	B2
9407	B2
9450	B1
9451	A1
9453	B2
9454	B2
9456	B2
9457	A1
9459	A3
9460	B2
9461	B3
9462	C4
9468	B3
9471	B2
9472	A2
9473	B2
9500	D2
9501	D2
9504	D2
9505	C1
9506	D1
9507	C2
9508	B2
9510	D2
9511	C2
9513	D1
9521	E1
9522	E1
9524	D1
9530	B2
9533	C2
9534	C2
9535	C3
9537	C3
9539	C3
9541	D2
9542	C2
9543	C2
9544	D1
9545	C1
9547	D1
9548	D1
9549	E1
9550	C1
9551	C1
9552	F1
9556	C1
9557	E2
9560	D3
9561	D3
9562	C3
9563	C3
9565	B4
9566	D3
9567	D3
9601	E1
9614	E2
9615	B2

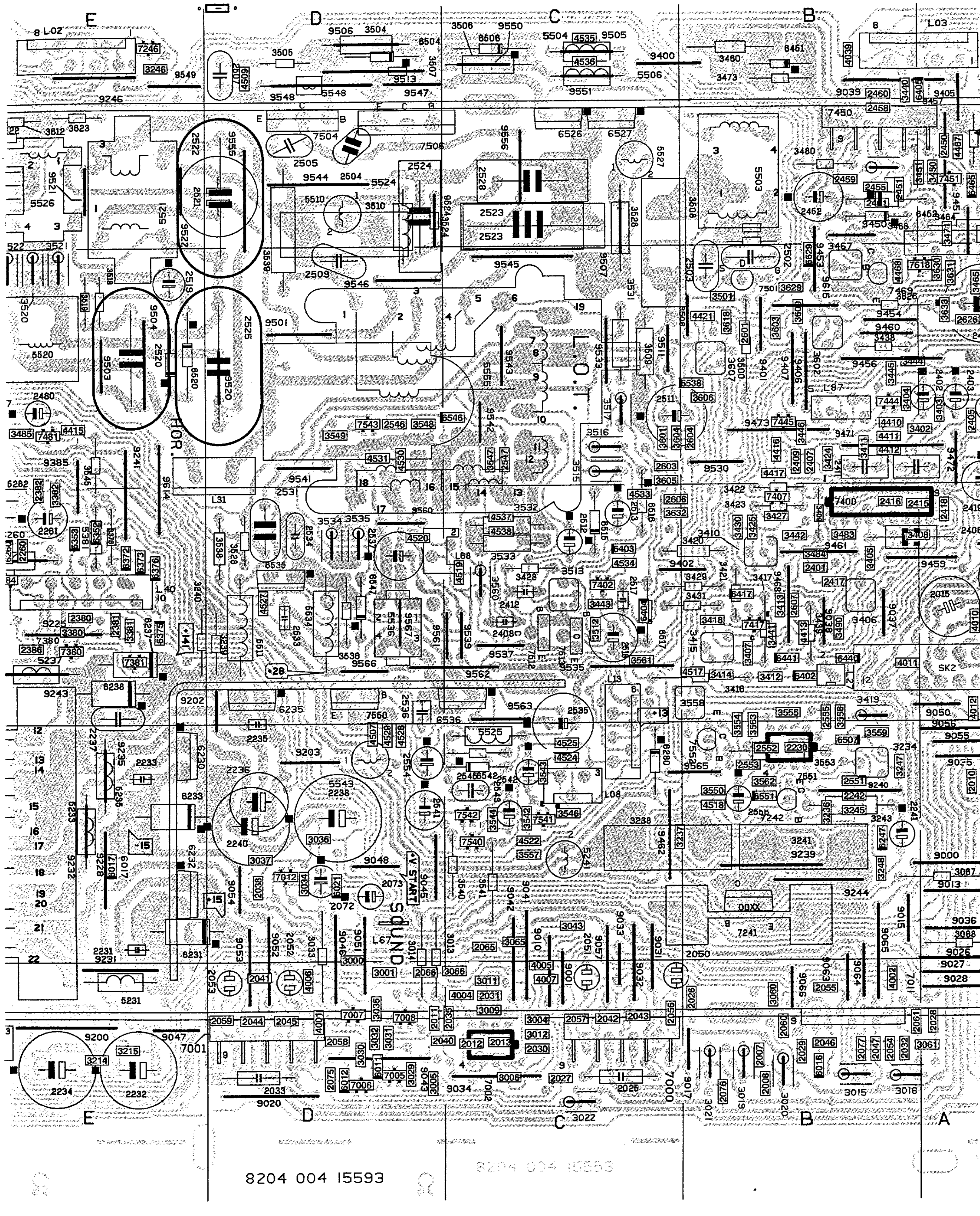
Mains filter FL4



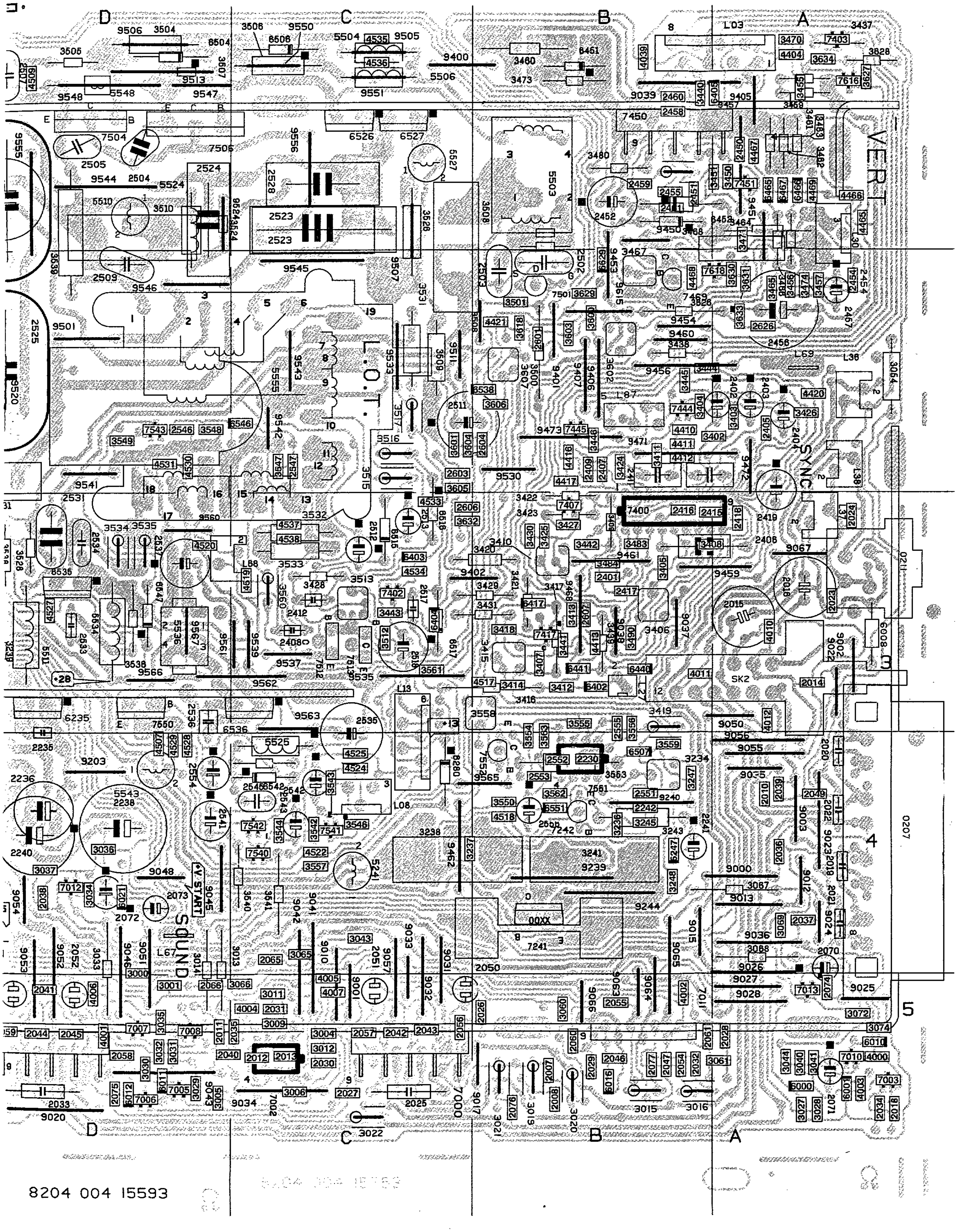
Groß-signal Platte FLx.26/.27


H
G
F
2
3
3104 303 3349.3
ATTENTION LIVE PARTS
3209
9206
9207
3204
3205
3206
9205
9218
2203
5202
5204
L81
L33
9242
9204
L34
2202
3203
2200
1200
T3.15H
9238
SKI
3201
L35
9216
9217
L01
7
9060
2001
3049
2009
3052
7009
4
3050
3053
9059
3051
2002
2003
2004
2005
L28
2270
4275
7274
7272
4274
7273
2272
3273
3272
3274
9236
9237
9234
3270
3271
7270
3268
7268
6266
9058
2609
2600
7608
3616
3909
3619
3620
2614
3611
3608
2605
3621
C B E
3610
3617
7603
2610
7601
2613
3614
2615
3622
3612
7610
7602
7601
9552
3615
3825
2611
8629
3624
6601
9521
5526
5 ST.BY
6481
3627
3529
2529
2530
7530
3530
3522
3521
6480
3537
3514
5514
3479
3481
3482
7480
3520
5520
8 L02
3253
9250
2255
2254
9251
7250
L65
7
5
3
1
5255
2
B C E
3255
3250
9230
9068
7251
7256
3255
6254
3254
3251
3257
L39
3256
2256
6251
6201
8
7201
6306
3306
3210
3211
3213
3249
3252
9221
9222
3212
2258
3230
6210
6211
2210
2211
11
10
9
8
7
6
5
4
3
2
1
9220
2214
2215
6213
6212
L80
3216
3220
9223
6220
6221
2216
6216
C
7216
B
E
9224
3202
2219
2218
3073
9201
L82
2234
9229
2480
9557
3485
7481
441
3266
3267
17
2283
9385
14
5262
2262
2382
3382
6262
2261
6260
2264
5260
9219
3260
6260
4019
7384
3385
9225
7380
3383
2386
5237
9243
12
13
14
15
16
17
18
19
20
21
22
5230
6233
9232
Mains switch FL4
V1
3201
K1
3185
4
3
SK-1
2
1
K2
1185
3185
V2
K87
1

Platine forts signeaux FLx.26/.27


E
D
C
B
A
L02
L03
L.O.T.
HOR.
SOUND
V START
L31
L40
L13
L08
L67
L68
L87
SK2
7400
7241
00XX
5543
5555
5503
5526
5520
5521
2523
2525
2520
2522
2234
2232
2015
9200
9047
7001
7000
7002
7011
3238
3241
9239
8204 004 15593

gneaux FLx.26/.27

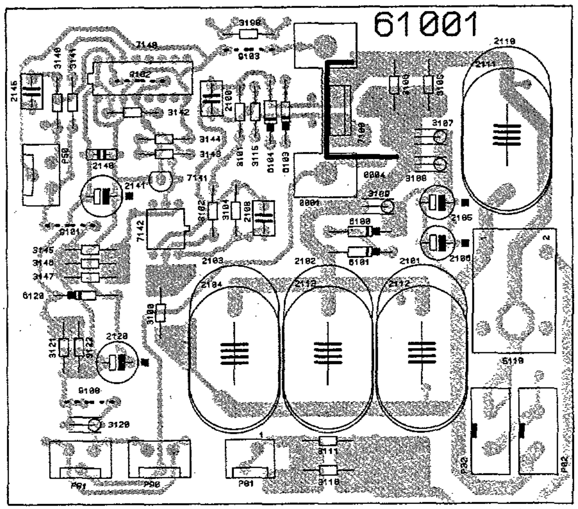

D
C
B
A
L.O.T.
VERT
SYNC
SOUND
+V START
SK2
L03
L87
L88
L67
L69
L36
L38
L30
L13
L08
1
2
3
4
5
7400
7450
7241
7551
7242
2230
2552
2012
2013
9020
9034
3022
9025

8204 004 15593

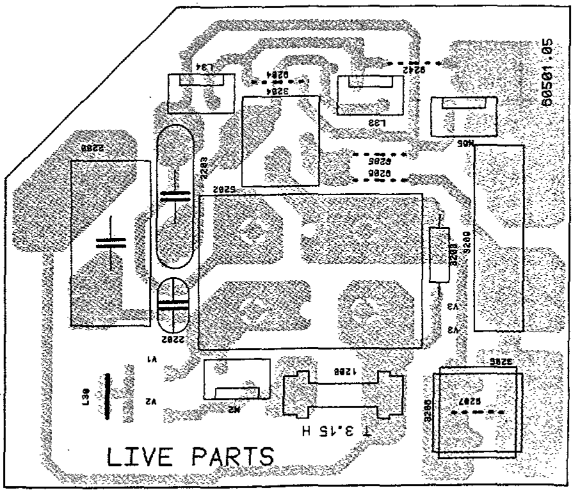
PCS 73 74

L01	F1	2259	F3	3011	C5	3375	H4	3553	E2	5526	E1	7273	F2	9238	G3	9520	E2
L02	E1	2260	E3	3012	C5	3376	E3	3555	D1	5527	C1	7274	F1	9239	E3	9521	D1
L03	A1	2261	E3	3013	D4	3378	H4	3556	C1	5534	D3	7305	H5	9240	B4	9522	E2
L06	C2	2262	E3	3014	D4	3380	E3	3558	C2	5543	D4	7311	H5	9241	E3	9529	D3
L13	C4	2263	E2	3016	B5	3381	E3	3559	B2	5555	D3	7312	H5	9242	G2	9530	B2
L30	A1	2270	G1	3019	B5	3382	E3	3560	C4	6000	A5	7318	H5	9243	E3	9533	C2
L32	E2	2272	G2	3020	B5	3383	E3	3561	C4	6001	A5	7320	H4	9246	E1	9534	C2
L33	G2	2302	H5	3021	B5	3387	E3	3562	D4	6008	A3	7360	H4	9247	F1	9535	C3
L34	G2	2303	H5	3022	B5	3402	B2	3563	C4	6010	A5	7369	H4	9250	F2	9537	C3
L35	G3	2308	H5	3027	A5	3403	B2	3564	D3	6011	D5	7370	H4	9251	F2	9538	D3
L36	A2	2321	H5	3028	A5	3404	A2	3570	C4	6012	D5	7371	H4	9300	H5	9539	D3
L37	A3	2330	B4	3029	D5	3405	B3	3573	D1	6016	B5	7380	E3	9302	H4	9540	D4
L38	A2	2331	H4	3030	D5	3406	B3	3601	B2	6017	D4	7381	E3	9385	E2	9541	D2
L39	F3	2351	H4	3031	D5	3407	B3	3602	B2	6021	D4	7384	E3	9400	D3	9542	C2
L40	E3	2360	H4	3032	D5	3408	B3	3603	B2	6201	F3	7400	B3	9437	B3	9543	C2
L61	G2	2361	H4	3033	D4	3409	B2	3604	B2	6210	G3	7402	C3	9438	B3	9544	D1
L65	G2	2365	H4	3034	D4	3410	B3	3605	C2	6211	F3	7417	B3	9439	B3	9545	C1
L70	A2	2372	H4	3035	D5	3411	B2	3606	B2	6212	F4	7443	A2	9450	A1	9547	D1
L71	B2	2374	H4	3036	D4	3413	B3	3607	B2	6213	F4	7444	A2	9451	A2	9549	E1
L80	G4	2376	H4	3037	D4	3414	B3	3608	F1	6216	F5	7450	A1	9452	B2	9550	D4
L90	C3	2380	E3	3040	A5	3415	B3	3609	F1	6220	G4	7451	A1	9453	A1	9552	F1
SK1	G3	2381	E3	3041	A5	3417	B3	3610	F1	6221	G5	7469	B2	9454	C3	9557	E2
SK2	B3	2382	E3	3043	C4	3418	B3	3611	F1	6230	E4	7480	F2	9455	B2	9614	E2
0211	A3	2386	E3	3044	A5	3419	B4	3612	E1	6232	E4	7481	E2	9457	A1	9615	B2
039	H5	2401	B3	3049	G1	3421	B3	3613	B2	6235	D3	7501	B2	9459	B3	9625	A2
040	H4	2402	B2	3050	G1	3422	B2	3614	E1	6237	E3	7506	D1	9460	B2	9626	A2
1200	G3	2403	B2	3051	G1	3424	B2	3615	F1	6238	E3	7512	C3	9462	C4	9801	B4
2001	G1	2404	A2	3052	G1	3426	A2	3616	F1	6246	B4	7513	C3	9463	B3	9802	B4
2002	G1	2405	A2	3053	G1	3428	C3	3617	F1	6251	F3	7530	F1	9464	B4	9803	B3
2003	G1	2406	B3	3054	A2	3429	B3	3618	B2	6260	E3	7540	C4	9471	B2		
2004	G1	2407	B2	3060	B5	3430	B2	3619	F1	6262	E3	7541	C4	9472	A2		
2005	G1	2408	C3	3061	B5	3438	C3	3620	F1	6266	F2	7542	C4	9500	D2		
2007	B5	2409	B2	3065	C4	3439	B2	3621	F1	6272	G2	7543	D2	9501	D2		
2008	B5	2410	B2	3066	C5	3440	B3	3622	E1	6280	C4	7550	D3	9502	D2		
2009	G1	2411	B2	3067	A4	3441	B3	3623	E1	6302	H5	7551	D4	9503	D2		
2010	A4	2412	C3	3068	A4	3442	B3	3625	A2	6303	H5	7552	C4	9504	D2		
2011	D5	2413	C3	3069	A4	3443	A2	3626	A1	6304	H5	7601	F1	9507	C1		
2012	C5	2415	A3	3072	A4	3444	B2	3627	B4	6305	H5	7602	F1	9508	B2		
2013	C5	2416	B3	3073	A5	3448	A2	3628	A1	6306	F3	7603	F1	9511	C2		
2014	A3	2417	B3	3074	A5	3450	B1	3629	B2	6308	H5	7608	F1				
2015	A3	2418	A3	3201	H3	3451	B1	3630	F1	6312	H5	7610	E1				
2016	A3	2419	A3	3202	F5	3452	B1	3631	B2	6314	H5	7616	A1				
2018	A5	2450	A1	3203	H2	3453	A1	3632	B3	6315	H5	7618	B2				
2019	A4	2451	A1	3204	H1	3455	A1	3633	B2	6318	H5	7800	B4				
2020	A4	2452	B1	3205	G1	3456	A2	3634	A1	6319	H5	7801	B3				
2021	A4	2453	A1	3209	G1	3457	A2	3653	B2	6331	H4	7802	B4				
2022	A4	2455	B1	3210	F3	3458	A1	3800	B4	6349	H4	9000	A4				
2023	A3	2456	A2	3211	G3	3459	A1	3801	B4	6350	H4	9001	C5				
2024	A3	2457	A2	3212	F3	3460	B1	3802	B4	6351	H4	9003	A4				
2025	C5	2458	B1	3213	F3	3461	A1	3803	B4	6352	E3	9008	B5				
2026	B5	2459	B1	3214	E5	3462	A1	3804	B4	6353	E3	9010	C5				
2027	C5	2460	B1	3215	E5	3463	A1	3805	B4	6355	H4	9012	A4				
2028	B5	2480	E2	3216	F4	3464	A2	3806	B4	6356	H4	9013	A4				
2029	B5	2501	B2	3235	F3	3465	A2	3807	C3	6357	H4	9015	B4				
2030	C5	2502	B2	3238	D3	3467	B1	3809	B4	6370	H4	9017	B5				
2031	C5	2503	B2	3239	D3	3468	A2	3810	B3	6371	H4	9018	F5				
2032	B5	2504	C1	3240	E3	3473	B1	3811	B4	6372	E3	9019	E3				
2033	D5	2507	D1	3241	B4	3479	F2	4000	A5	6373	E3	9020	D5				
2034	A5	2509	D2	3242	B4	3480	B1	4001	D5	6375	E3	9022	A3				
2035	C5	2510	D2	3243	B4	3481	F2	4002	A3	6376	E3	9023	A4				
2036	A4	2511	B2	3244	B4	3482	F2	4003	A5	6403	C3	9024	A4				
2037	A4	2512	C3	3245	B4	3484	B3	4004	C5	6404	C3	9026	A4				
2038	D4	2513	C3	3246	E1	3485	E2	4005	C5	6417	B3	9027	A5				
2039	A4	2517	C3	3247	B4	3500	B2	4006	D5	6422	B2	9028	A5				
2040	D5	2518	C3	3248	B4	3501	C2	4007	C5	6440	B2	9029	B5				
2041	D5	2519	E2	3249	F3	3502	B1	4010	A3	6441	B3	9031	C4				
2042	C5	2520	E2	3250	F3	3503	B2	4011	B3	6451	B1	9032	C5				
2043	C5	2521	D1	3251	F3	3504	D1	4012	A3	6452	B2	9033	C4				
2044	D5	2522	D2	3252	F3	3505	C3	4061	B5	6480	F1	9034	C5				
2045	D5	2523	C1	3253	F2	3506	C1	4074	A5	6506	D1	9035	A4				
2046	B5	2524	D1	3255	F3	3507	D1	4268	F2	6515	C2	9036	A4				
2047	B5	2525	E2	3266	F2	3508	C2	4274	F1	6516	C3	9041	C4				
2049	A4	2526	E2	3267	F2	3509	C2	4401	B4	6517	C3	9042	C4				
2050	C5	2527	D1	3268	G2	3510	D1	4402	C4	6519	E2	9043	D5				
2051	C5	2529	F1	3270	F2	3511	D3	4403	B2	6520	E2	9045	D4				
2052	D5	2530	F1	3271	F2	3512	C3	4404	B3	6526	C1	9046	D4				
2053	D5	2531	D3	3272	F2	3513	C3	4405	A1	6527	C1	9047	E5				
2054	B5	2533	D3	3273	G2	3514	F2	4406	B2	6529	F1	9048	D4				
2055	B5	2534	D3	3274	F1	3515	C3	4407	B2	6534	D3	9050	A4				
2056	C5	2535	C4	3275	G2	3516	C3	4408	B4	6536	C3	9051	D4				
2057	C5	2536	C4	3298	F5	3517	C3	4409	B4	6542	C3	9052	D5				
2058	D5	2537	D4	3299	F5	3518	D2	4461	B2	6546	C2	9053	D5				
2059	D5	2541	C4	3300	H5	3519	E2	4508	B2	6547	D3	9054	D4				
2060	B5	2542	C4	3304	H5	3520	E2	4511	F1	6551	C4	9055	A4				
2061	B5	2543	C4	3305	H5	3521	E2	4512	D4	6570	C4	9056	A3				
2065	C4	2544	C3	3306	F3	3522	C1	4530	D2	6611	B2	9057	C5				
2066	D5	2545	C3	3308	H5	3523	D1	4531	D2	6633	B2	9058	G2				
207	A4	2546	D2	3309	H5	3524	D1	4533	D3	6801	B3	9059	G1				
2070	A5	2547	C2	3310	H5	3525	E2	4601	F1	6802	B4	9060	G1				
2071	A5	2548	D2	3311	H5	3526	B2	4802	B4	6803	B4	9063	B5				
2072	D4	2551	C4	3312	H5	3527	F1	4803	B3	6804	B3	9064	B5				
2073	D4	2560	D4	3313	H5	3528	D3	4804	B3	7000	C5	9065	B4				
2074	A5	2600	F1	3314	H5	3529	F1	5202	H2	7001	D5	9066	B5				
2200	H3	2601	B2	3317	H5	3530	F1	5204	H2	7002	C5	9067	A3				
2202	G2	2603	C2	3320	H5	3531	B3	5230	F4	7003	A5	9202	D3				
2203	H2	2605	F1	3321	H5	3532	C3	5231	E5	7005	D5	9203	D4				
2210	F4	2606	C3	3322	H5	3533	C3	5233	E4	7006	D5	9204	G2				
2211	F4	2607	B3	3331	H4	3534	D3	5235	E4	7007	D5	9205	H1				
2214	G4	2609	F1	3332	H4	3535	D3	5237	E3	7008	D5	9206	H1				
2215	G4	2610	F1	3350	H4	3536	D3	5241	C4	7009	G1	9207	G1				
2216	G5	2611	F1	3351	H4	3537	F2	5255	F3	7010	A5	9218	H1				
2218	F5	2612	E1	3356	H4	3538	D3	5260	E3	7011	B5	9219	E3				
2219	F5	2613	F1	3357	H4	3539	C3	5308	H5	7012	D4	9220	G4				
2231	E4	2614	F1	3358	H4	3540	C4	5310	H5	7013	A5	9221	G3				
2232	E5	2615	F1	3359	H4	3541	C4	5381	E3	7201	F3	9222	F3				
2233	E4	2633	B2	3360	H4	3542	C4	5503	B1	7216	G5	9223	F4				
2234	E5	2801	B4	3362	H4	3543	C4	5505	C1	7241	B4	9224	F5				
2235	D3	2805	B4	3364	H4	3544	C4	5506	C1	7241	C4	9225	E3				
2237	E3	2806	B4	3365	H4	3545	E2	5507	D1	7242	B4	9228	E4				
2238	D4	3000	D5	3366	H4	3546	C4	5510	D1	7243	B4	9229	E5				
2239	B4	3001	D5	3368	H4	3547	C2	5511	D3	7246	E1	9230	F3				
2240	D4	3004	C5	3370	H4	3548	D2	5514	F2	7250	F3	9231	E5				
2250	F3	3005	D5	3371	H4	3549	D2	5520	E2	7251	F3	9232	E4				
2254	F2	3006	C5	3372	H4	3550	C4	5521	E1	7268	F2	9233	F2				
2255	F3	3008	C5	3373	H4	3551	C4	5524	D1	7270	F2	9234	F1				
2258	F3	3009	C5	3374	H4	3552	E2	5525	D3	7272	G1	9235	E4				

Panorama

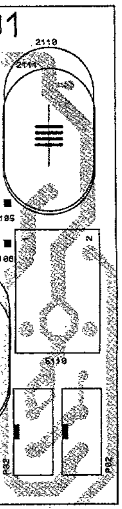


Mains filter FL2

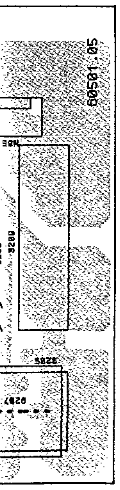


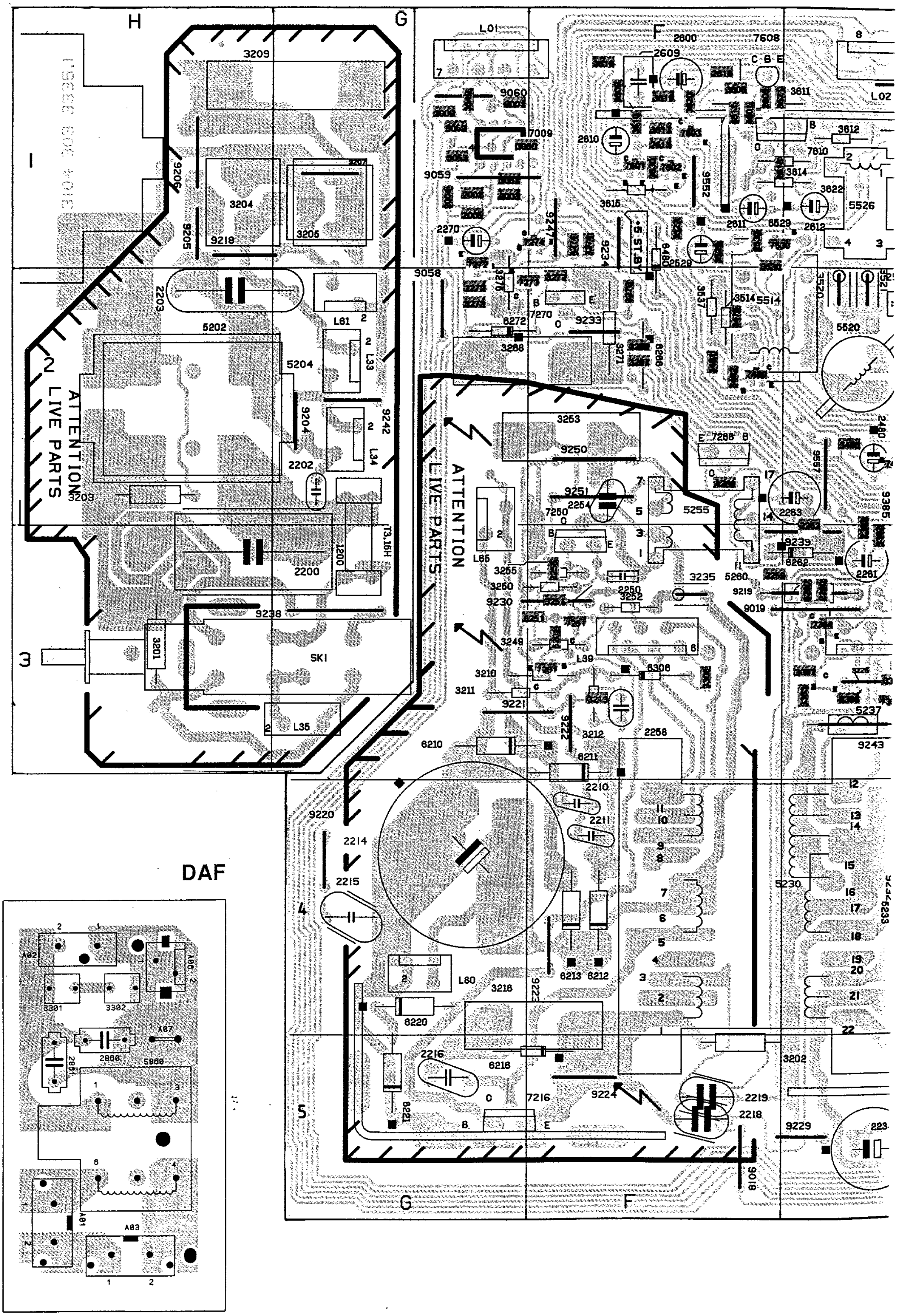
Large signal panel FLx.24 / Groß-signal Platte FLx.24 /

anorama

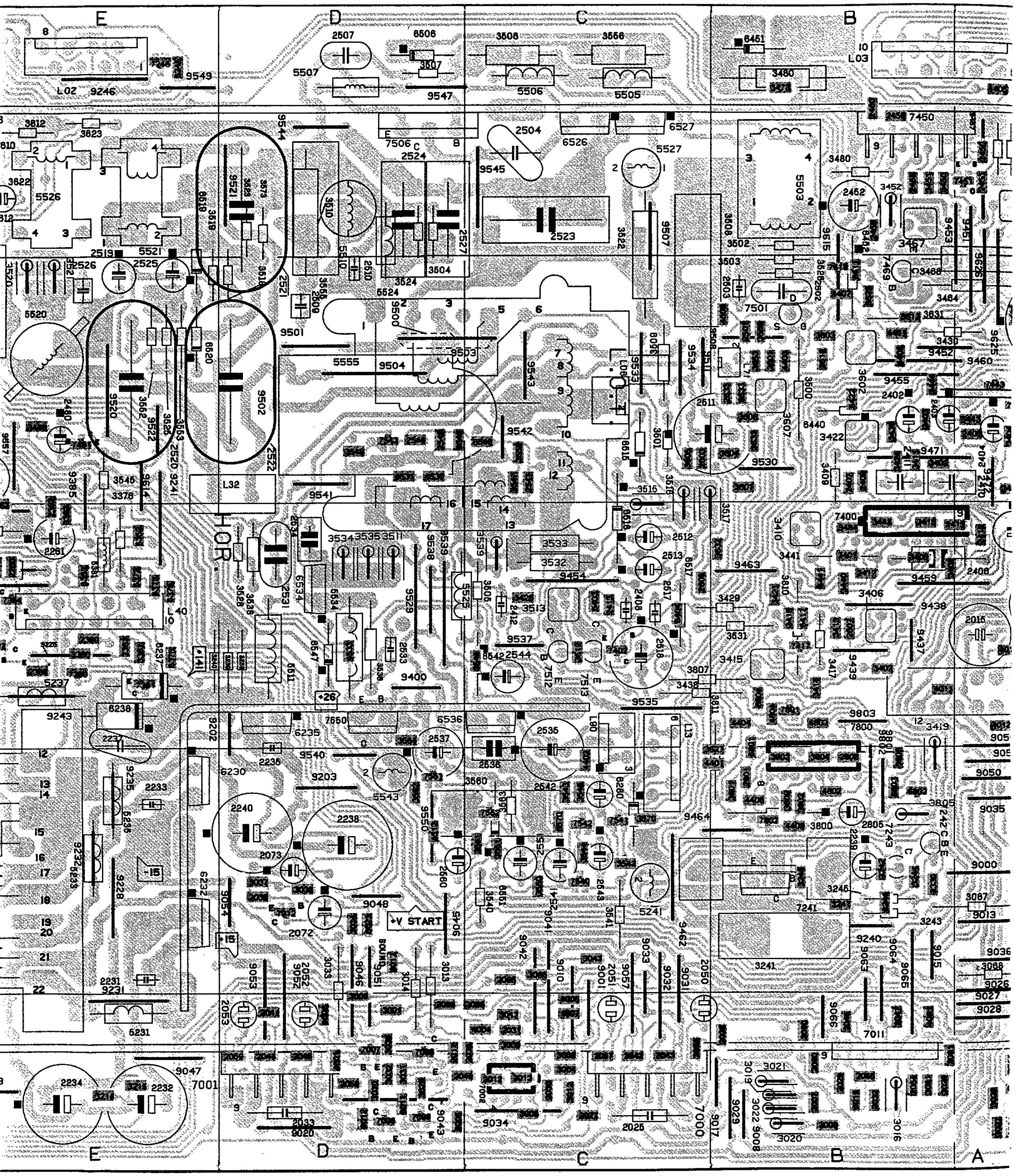

2119
2111
5119

lter FL2

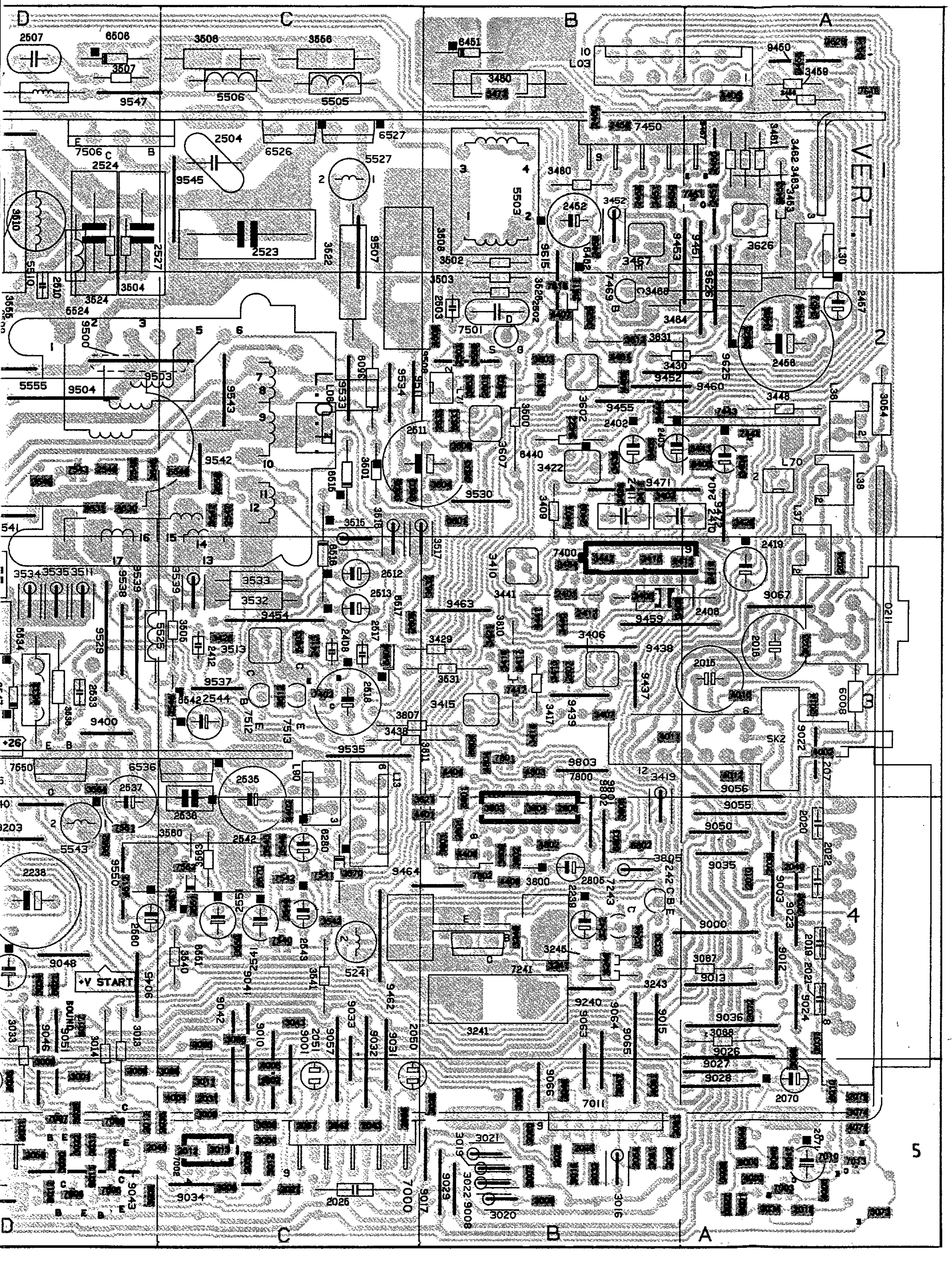

60501.05
5826


H
G
F
I
2
3
4
5
L01
L02
2600
7608
2609
3611
3612
7610
3614
3622
5526
9060
7009
2610
9059
3615
2611
6529
2612
9552
2270
9247
9234
+5 ST-BY
6480
2529
9058
3276
7273
7270
9233
3271
6286
3637
3514
5514
3520
5520
6272
3288
3209
9206
3207
3204
3205
9205
9218
2203
L61
5202
5204
L33
9204
9242
L34
2202
3203
ATTENTION LIVE PARTS
2200
1200
T3.15H
9238
3201
SK1
L35
3253
9250
9251
2254
7250
5255
L65
3255
3260
9230
2250
3252
3235
5260
9219
9019
3249
L39
6306
3210
3211
9221
9222
3212
2258
6210
6211
2210
2211
9220
2214
2215
7288
9557
2263
9239
6262
2261
2460
9385
5237
9243
5230
6233
6213
6212
L80
3216
9223
6220
2216
6216
6221
7216
9224
2219
2218
3202
9229
9018
DAF
2
1
A02
A06
3301
3302
A07
2801
2800
5800
3
8
4
A01
A03

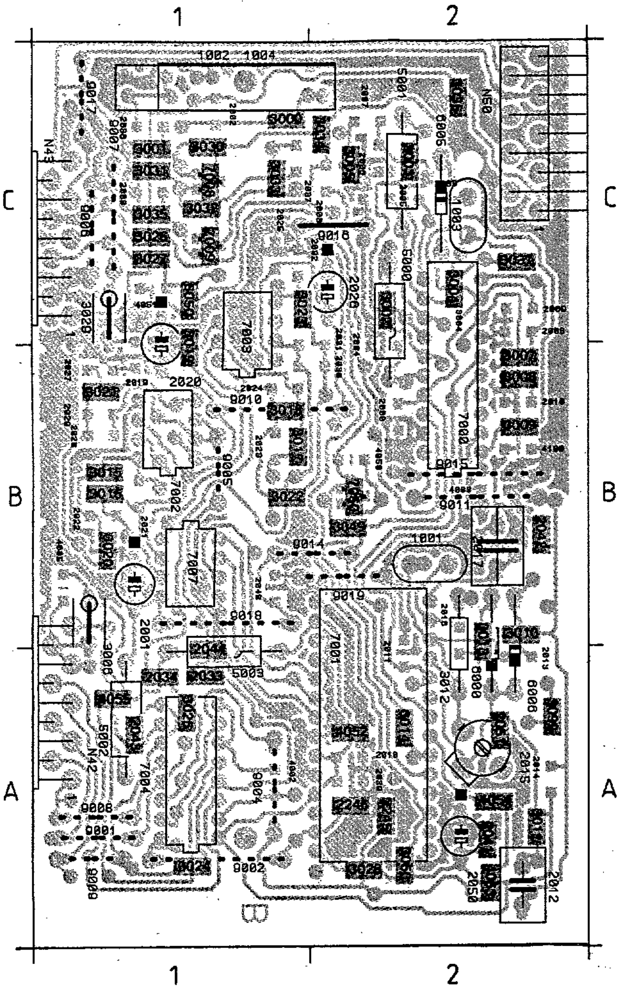
Platine forts signeaux FLx.24


E
D
C
B
A
8
L02
9246
9549
5507
2507
6506
3507
9547
3508
5506
3556
5505
6451
3480
10
L03
3612
3623
3622
5526
2519
5521
2525
2526
5520
9544
9521
9519
3619
3618
2521
6620
9520
3662
9522
3626
3563
2520
9241
9502
2522
L32
9501
3510
5510
2610
2609
3566
7506
2524
2527
3524
3504
5524
9500
9504
9503
5555
9543
9542
9541
2504
9545
6526
6527
2523
5527
3522
9507
3608
5503
7450
3480
3452
2462
3467
7469
3468
3464
3502
3503
2503
7501
9453
9451
9626
3431
3430
9452
9460
9455
2402
3602
3607
6440
3422
9471
2404
9625
L06
9533
9534
6616
3601
3616
2511
9530
3500
3409
3410
7400
3441
3406
9438
2015
9437
9439
3415
3417
2408
9459
9463
3429
3431
2480
9357
9385
3545
3376
9614
2281
L40
5237
9243
6238
2237
9235
2233
6236
9232
9233
9228
6232
6230
2235
9202
9203
9540
9054
6235
7550
6536
2537
2538
2536
5543
2240
2238
2073
2072
9048
+V START
9055
9051
9046
3014
3013
3033
2052
9052
9053
2053
2231
9231
5231
9047
2234
2232
7001
2033
9020
7002
9034
9043
2025
7000
9017
9029
3019
3021
3022
9008
3020
3016
9535
3611
3807
3438
9803
7800
9802
3419
9050
9035
2805
7243
9000
3800
2239
3246
7241
3241
3087
9013
3243
9015
9240
9063
9064
9065
9066
7011
9036
3088
9026
9027
9028
9010
9001
2051
9057
9033
9032
9031
2050
9462
9464
5241
3641
2543
2542
3560
3563
3540
9550
2560
9042
9041
3534
3535
3511
3539
3533
3532
9454
3513
2412
9537
2544
7512
7513
2618
2512
2513
2517
2408
3515
3517
3518
3526
3538
2531
2534
6534
5534
5511
6647
2633
9529
9538
9539
9400
5525
3505
+26
+14
-15
+15
12
13
14
15
16
17
18
19
20
21
22
HOR

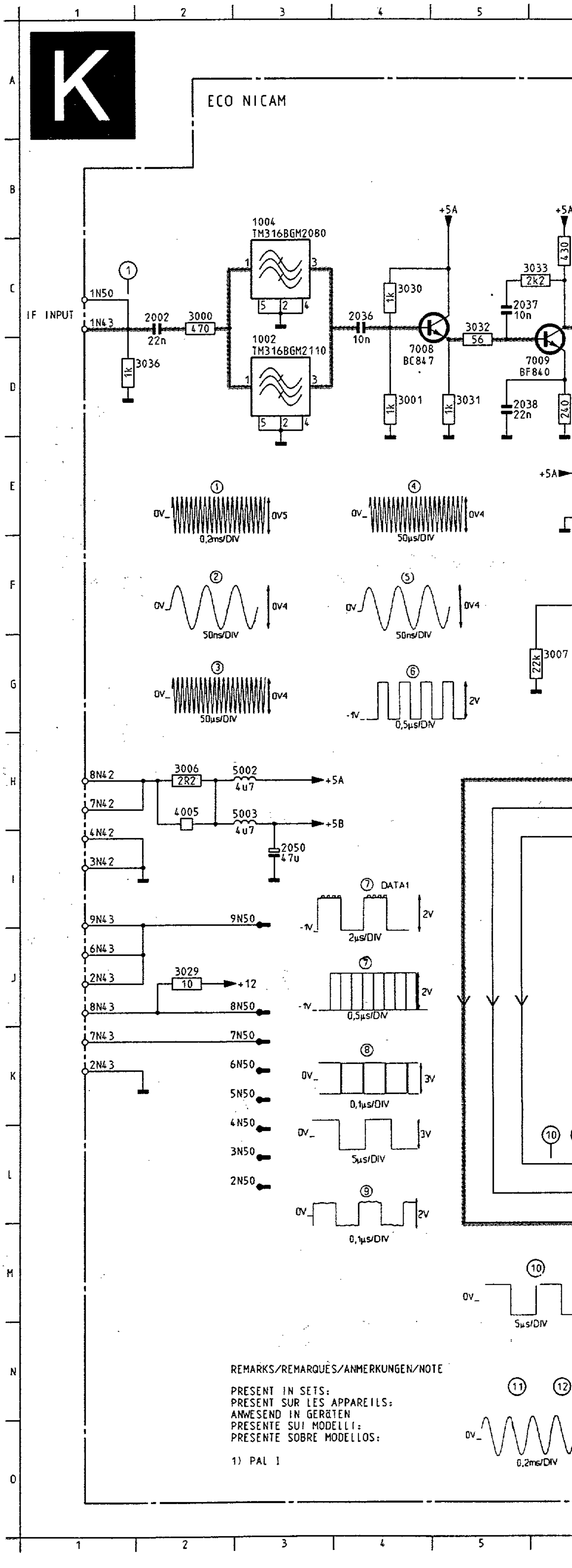
gneaux FLx.24

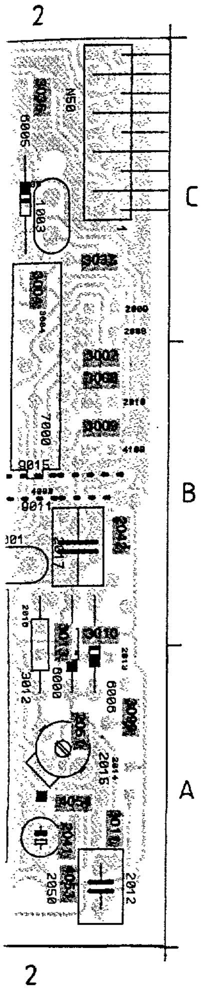

D
C
B
A
VERT.
2
4
5
+V START
+26
SK2
L03
L30
L36
L37
L38
L70
L80
L13
7450
7400
7241
7011
7000
5503
5505
5506
5525
5527
5543
5555
2456
2452
2523
2535
2504
2507

NICAM

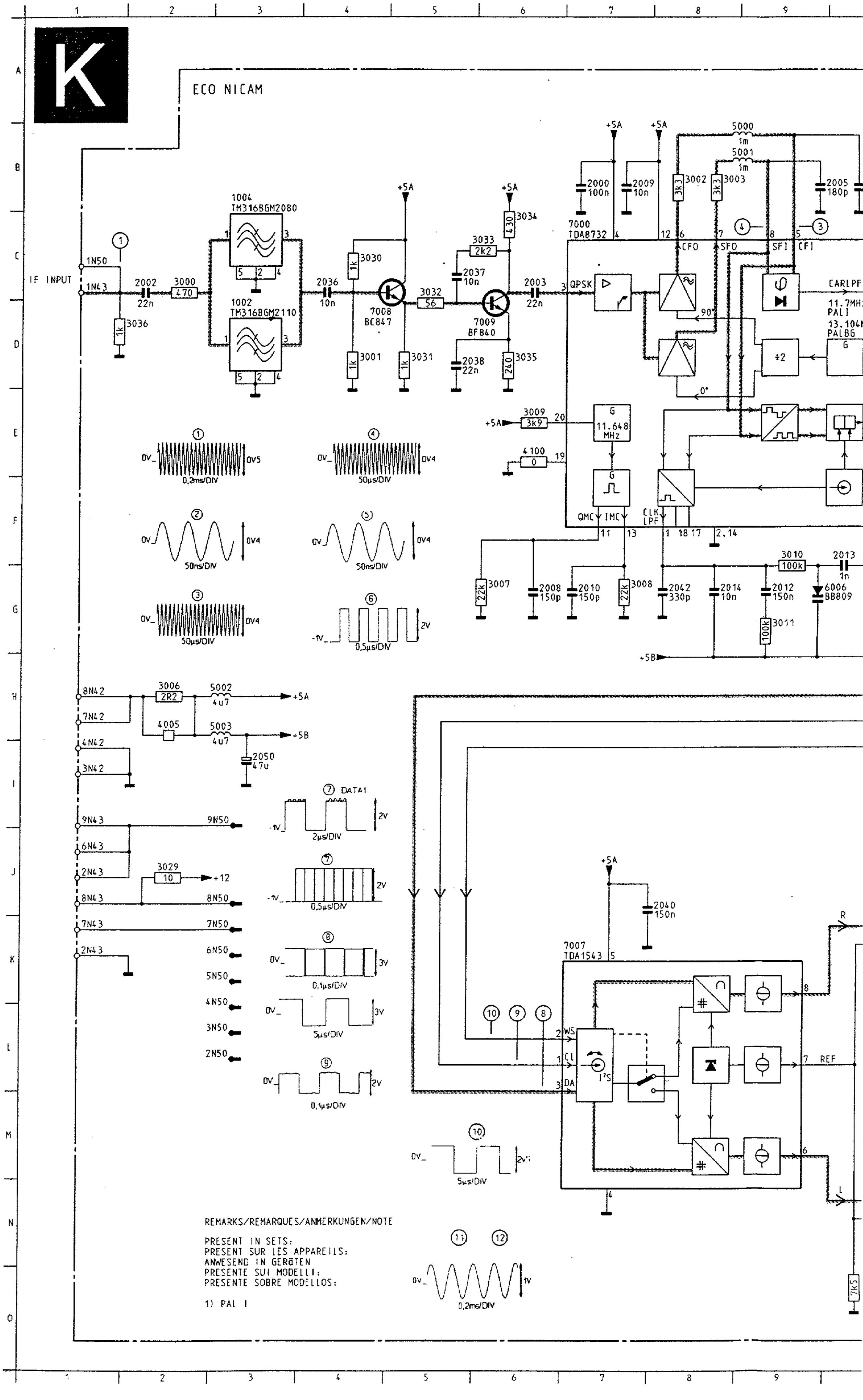

1
2
C
B
A
N43
N42
N50
1002 1004
3000
7003
7000
7001
7002
7004
7007
1001
1003
9019
5003
2050
2012

N42	A1	2018	A2	2043	A1	3019	B1	4050	B2	9002	A1
N43	C1	2019	B1	2044	A1	3020	B1	4051	C1	9004	A1
N50	C2	2020	B1	2050	A2	3021	B1	4052	A2	9005	B1
1001	B2	2021	B1	2051	A2	3022	B1	4053	A2	9006	C1
1002	C1	2022	B1	2245	A2	3023	C1	4054	A2	9007	C1
1003	C2	2023	B1	2246	A2	3024	A1	4055	A1	9008	A1
1004	C1	2024	B1	3000	C1	3025	A1	4100	B2	9009	A1
2000	B2	2025	C1	3001	C1	3026	C1	5000	C2	9010	B1
2001	B1	2026	C2	3002	C2	3027	C1	5001	C2	9011	B2
2002	C1	2027	B1	3003	C2	3028	A2	5002	A1	9014	B2
2003	C2	2028	B1	3004	C2	3029	C1	5003	A1	9015	B2
2004	B2	2029	B1	3005	C2	3030	C1	6000	A2	9016	C2
2005	C2	2030	B2	3006	B1	3031	C1	6005	C2	9017	C1
2006	C2	2031	B2	3007	B2	3032	C1	6006	A2	9018	B1
2007	C2	2032	C1	3008	B2	3033	C1	6050	C1	9019	B2
2008	B2	2033	A1	3009	B2	3034	C2	7000	B2		
2009	C2	2034	A1	3010	A2	3035	C1	7001	A2		
2010	B2	2035	C2	3011	A2	3036	C2	7002	B1		
2011	A2	2036	C1	3012	A2	3037	C2	7003	B1		
2012	A2	2037	C1	3013	A2	3049	B2	7004	A1		
2013	A2	2038	C1	3014	A2	3050	A2	7007	B1		
2014	A2	2039	A2	3015	B1	3099	A2	7008	C1		
2015	A2	2040	B1	3016	B1	4002	A1	7009	C1		
2016	A2	2041	A2	3017	B1	4003	B2	7050	B2		
2017	B2	2042	B2	3018	B1	4005	B1	9001	A1		


K
ECO NICAM
IF INPUT
1N50
1N43
2002
22n
3000
470
3036
1k
1004
TM316BGM2080
1002
TM316BGM2110
2036
10n
3030
1k
3001
1k
3031
1k
7008
BC847
3032
56
3033
2k2
2037
10n
2038
22n
7009
BF840
+5A
3007
22k
8N42
7N42
4N42
3N42
3006
2R2
5002
4u7
4005
5003
4u7
2050
47u
+5B
9N43
6N43
2N43
8N43
7N43
2N43
3029
10
+12
9N50
8N50
7N50
6N50
5N50
4N50
3N50
2N50
0,2ms/DIV
50µs/DIV
50ns/DIV
0,5µs/DIV
DATA1
2µs/DIV
0,1µs/DIV
5µs/DIV
0,2ms/DIV
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) PAL I


2
N50
9005
1003
3034
3000
2000
2006
3002
3003
2010
7000
3009
4100
9015
9011
4003
3001
2017
9014
3010
3012
3008
6006
9006
2015
2016
9009
4051
9010
2050
2012
C
B
A
2

4050	B2
4051	C1
4052	A2
4053	A2
4054	A2
4055	A1
4100	B2
5000	C2
5001	C2
5002	A1
5003	A1
6000	A2
6005	C2
6006	A2
6050	C1
7000	B2
7001	A2
7002	B1
7003	B1
7004	A1
7007	B1
7008	C1
7009	C1
7050	B2
9001	A1
9002	A1
9004	A1
9005	B1
9006	C1
9007	C1
9008	A1
9009	A1
9010	B1
9011	B2
9014	B2
9015	B2
9016	C2
9017	C1
9018	B1
9019	B2

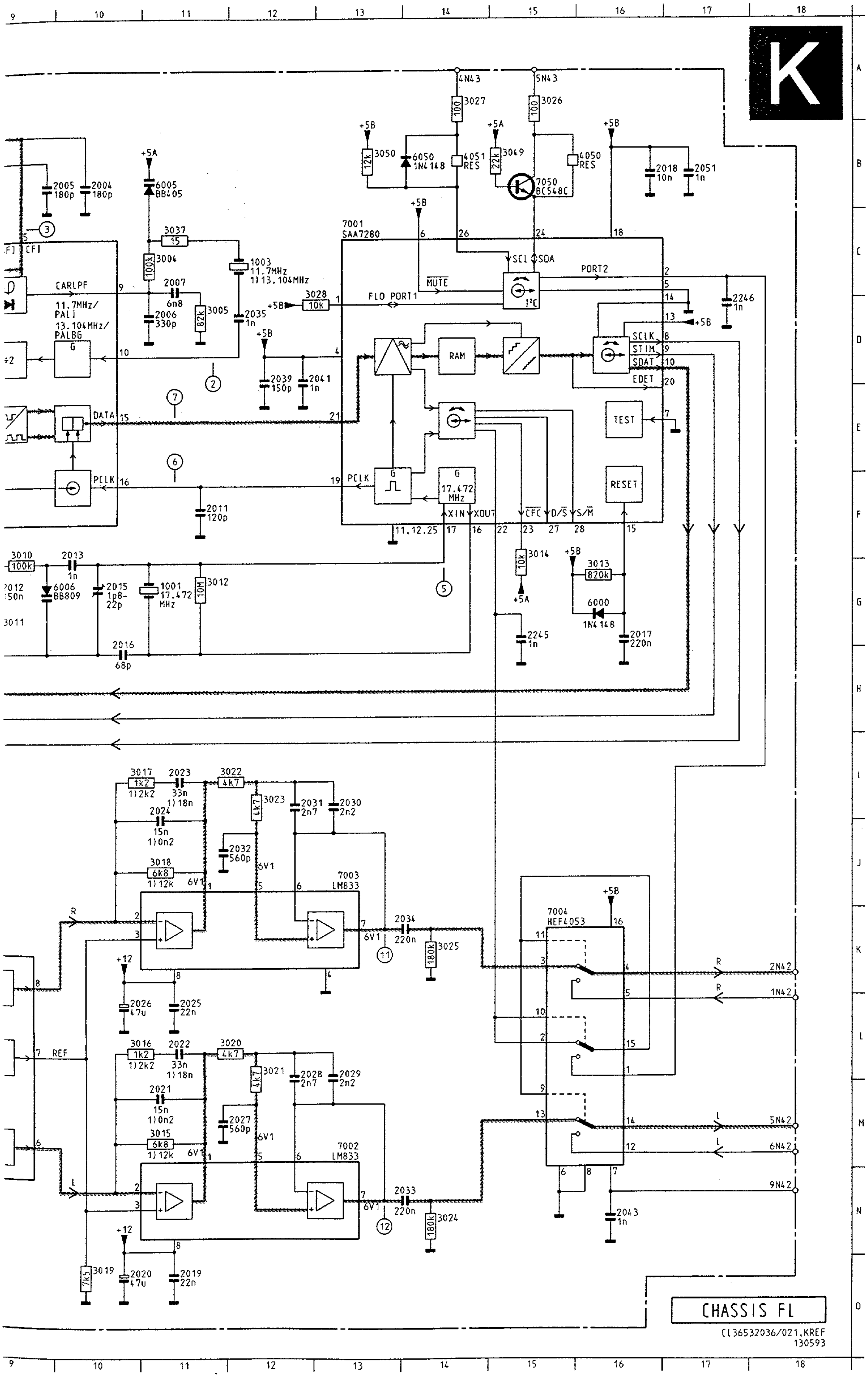

K
ECO NICAM
IF INPUT
1N50
1N43
①
2002 22n
3000 470
3036 1k
1004 TM316BGM2080
1002 TM316BGM2110
2036 10n
+5A
3030 1k
7008 BC847
3001 1k
3031 1k
3032 56
3033 2k2
2037 10n
3034 430
7009 BF840
2038 22n
3035 240
2003 22n
7000 TDA8732
QPSK
2000 100n
2009 10n
3002 3k3
3003 3k3
5000 1m
5001 1m
2005 180p
CFO
SFO
SFI
CFI
CARLPF
11.7MHz PAL I
13.104MHz PALBG
90°
0°
÷2
G
3009 3k9
4100 0
G 11.648 MHz
QMC
IMC
CLK LPF
3007 22k
2008 150p
2010 150p
3008 22k
2042 330p
2014 10n
2012 150n
3010 100k
2013 1n
6006 BB809
3011 100k
+5B
0V5
0,2ms/DIV
0V4
50µs/DIV
50ns/DIV
2V
0,5µs/DIV
8N42
7N42
4N42
3N42
3006 2R2
5002 4u7
4005
5003 4u7
2050 47u
9N43
6N43
2N43
8N43
7N43
9N50
3029 10
+12
8N50
7N50
6N50
5N50
4N50
3N50
2N50
⑦ DATA1
2µs/DIV
3V
0,1µs/DIV
5µs/DIV
⑧
⑨
⑩
⑪
⑫
1V
2040 150n
7007 TDA1543
WS
CL
DA
I²S
R
REF
L
7k5
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

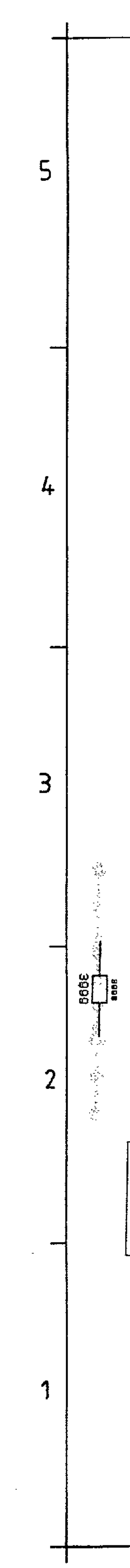
1) PAL I

NICAM


K
7001
SAA7280
RAM
TEST
RESET
I²C
SCL
SDA
PORT2
MUTE
FLO PORT1
SCLK
STIM
SDAT
EDET
CFC
D/S
S/M
XIN
XOUT
PCLK
DATA
CARLPF
11.7MHz/ PALI
13.104MHz/ PALBG
CFI
17.472 MHz
7050 BC548C
6050 1N4148
6005 BB405
6006 BB809
6000 1N4148
1003 11.7MHz 1) 13.104MHz
1001 17.472 MHz
7003 LM833
7002 LM833
7004 HEF4053
4N43
5N43
2N42
1N42
5N42
6N42
9N42
R
L
REF
+5A
+5B
+12
6V1
CHASSIS FL
CL36532036/021.KREF 130593

1001	G11
1002	D 3
1003	C12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
2009	B 7
2010	G 7
2011	F11
2012	G 9
2013	F10
2014	G 8
2015	G10
2016	G10
2017	G16
2018	B16
2019	O11
2020	O10
2021	M11
2022	L11
2023	I11
2024	I11
2025	L11
2026	L10
2027	M12
2028	L12
2029	L13
2030	I13
2031	I12
2032	J12
2033	N14
2034	K14
2035	D12
2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
2050	I 3
2051	B17
2245	G15
2246	D17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C11
3005	D11
3006	H 2
3007	G 6
3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G11
3013	G16
3014	F15
3015	M11
3016	L10
3017	I10
3018	J11
3019	O10
3020	L12
3021	L12
3022	I12
3023	I12
3024	N14
3025	K14
3026	A15
3027	A14
3028	C13
3029	J 2
3030	C 4
3031	D 5
3032	C 5
3033	C 6
3034	C 6
3035	D 6
3036	D 1
3037	C11
3049	B15
3050	B13
4005	H 2
4050	B16
4051	B14
4100	E 6
5000	B 9
5001	B 9
5002	H 3
5003	H 3
6000	G16
6005	B11
6006	G 9
6050	B14
7000	C 7
7001	C13
7002	M13
7003	J13
7004	K15
7007	K 7
7008	D 5
7009	D 6
7050	B15

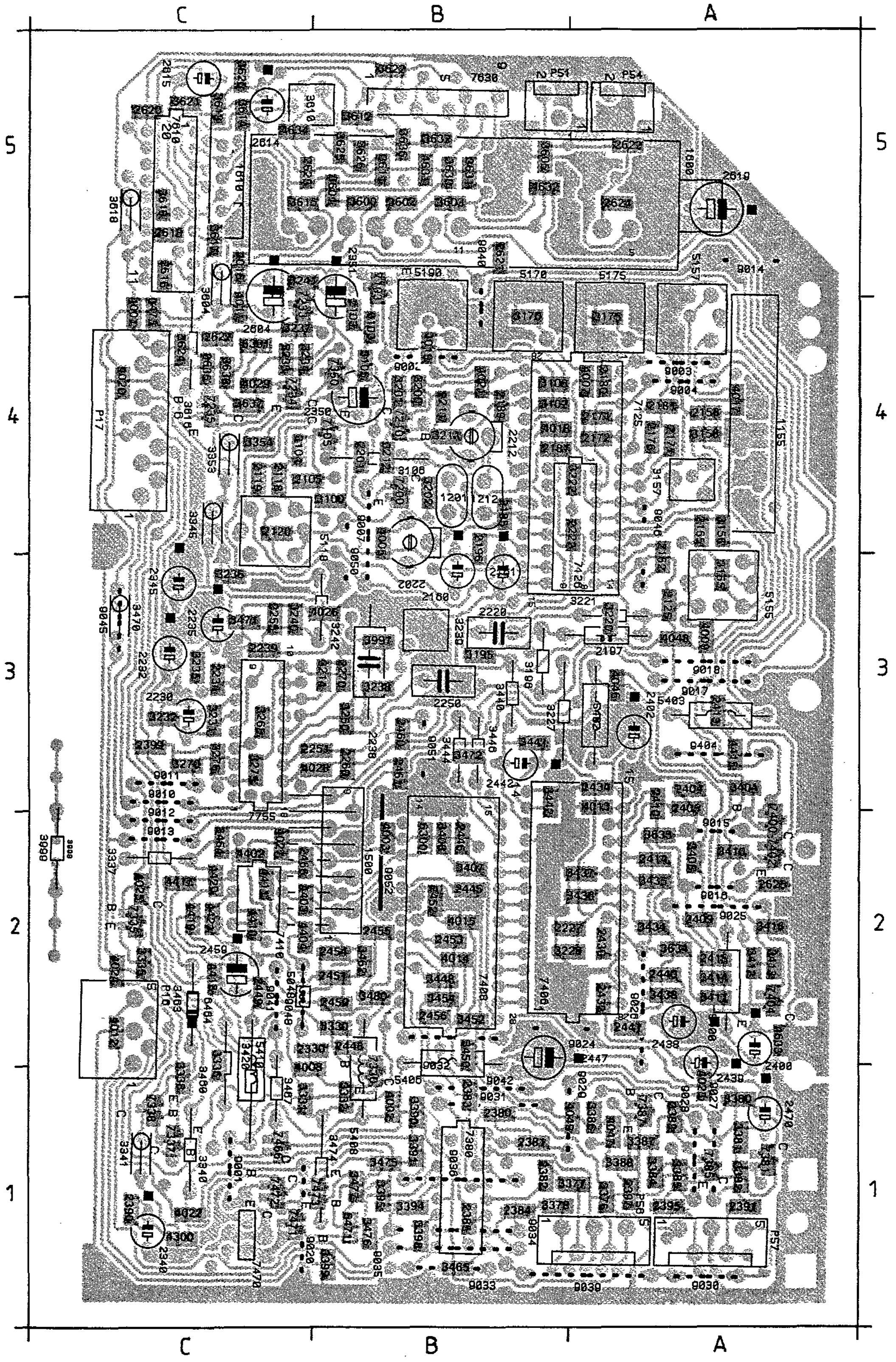
PIP p



P16	C2	21
P17	C4	21
P51	B5	21
P54	A5	21
P56	A1	21
P57	A1	21
1155	A4	21
1201	B4	21
1212	B4	21
1500	B2	21
1600	B5	21
1610	C5	21
2103	B4	21
2105	C4	21
2118	C4	21
2119	C4	21

PIP panel

1001	G11
1002	D 3
1003	C12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
2009	B 7
2010	G 7
2011	F11
2012	G 9
2013	F10
2014	G 8
2015	G10
2016	G10
2017	G16
2018	B16
2019	D11
2020	D10
2021	M11
2022	L11
2023	I11
2024	I11
2025	L11
2026	L10
2027	M12
2028	L12
2029	L13
2030	I13
2031	I12
2032	J12
2033	N14
2034	K14
2035	D12
2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
2050	I 3
2051	B17
2245	G15
2246	D17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C11
3005	D11
3006	H 2
3007	G 6
3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G11
3013	G16
3014	F15
3015	M11
3016	L10
3017	I10
3018	J11
3019	D10
3020	L12
3021	L12
3022	I12
3023	I12
3024	N14
3025	K14
3026	A15
3027	A14
3028	C13
3029	J 2
3030	C 4
3031	D 5
3032	C 5
3033	C 6
3034	C 6
3035	D 6
3036	D 1
3037	C11
3049	B15
3050	B13
4005	H 2
4050	B16
4051	B14
4100	E 6
5000	B 9
5001	B 9
5002	H 3
5003	H 3
6000	G16
6005	B11
6006	G 9
6050	B14
7000	C 7
7001	C13
7002	M13
7003	J13
7004	K15
7007	K 7
7008	D 5
7009	D 6
7050	B15



P16	C2
P17	C4
P51	B5
P54	A5
P56	A1
P57	A1
1155	A4
1201	B4
1212	B4
1500	B2
1600	B5
1610	C5
2103	B4
2105	C4
2118	C4
2119	C4
2120	C4
2125	A3
2155	A4
2158	A4
2160	B3
2161	B3
2162	A3
2171	A4
2172	A4
2176	A4
2177	A4
2180	A4
2181	A4
2185	B4
2187	B4
2189	B4
2196	B4
2197	A3
2201	B4
2202	B4
2211	B4
2212	B4
2220	B3
2222	B4
2227	B2
2230	C3
2232	C3
2234	C3
2235	C3
2238	B3
2239	C3
2250	B3
2251	C3
2255	C3
2260	B3
2270	B3
2330	C2
2340	C1
2345	C3
2350	B4
2351	B4
2380	B1
2381	B1
2382	B1
2383	B1
2384	B1
2385	B1
2390	C1
2391	A1
2395	A1
2397	A1
2399	C3
2400	A2
2402	A3
2404	A3
2405	A2
2409	A2
2410	A3
2413	A3
2414	A2
2415	A2
2430	A2
2432	A2
2434	A3
2438	A2
2439	A2
2440	A2
2441	A2
2442	B3
2445	B2
2446	B2
2447	B2
2448	B2
2449	C2
2450	B2
2451	B2
2452	B2
2453	B2
2454	B2
2455	B2
2456	B2
2459	C2
2460	B3
2461	B3
2466	C2
2470	A1
2604	C4
2614	C5
2615	C5
2616	C5
2618	C5
2619	A5
2620	C5
2621	B5
2622	A5
2623	C5
2624	A5
2625	A2
2627	C4
3100	B4
3103	B4
3104	C4
3105	B4
3106	B4
3107	B4
3108	B4
3155	A3
3156	A4
3157	A4
3158	A4
3170	B4
3175	A4
3195	B3
3196	B3
3200	B4
3201	B4
3202	B4
3211	B4
3212	B4
3214	B3
3220	A3
3221	A3
3222	B4
3227	B3
3228	B2
3231	C3
3232	C3
3233	C4
3234	C4
3235	C3
3236	C3
3237	C4
3238	B3
3239	B3
3240	C3
3241	C5
3242	B3
3250	B3
3265	C3
3270	C3
3275	C3
3276	C3
3330	B2
3331	C1
3332	B1
3335	C2
3336	C1
3337	C2
3338	C1
3340	C1
3341	C1
3345	C4
3353	C4
3354	C4
3376	A1
3377	A1
3378	B1
3380	A1
3381	A1
3382	A1
3383	A1
3384	A1
3385	A1
3386	A1
3387	A1
3388	A1
3390	B1
3391	B1
3394	B1
3395	B1
3398	B1
3399	B1
3404	A3
3405	A2
3406	B2
3407	B2
3410	A2
3411	A2
3412	A2
3413	A2
3414	A2
3416	A2
3420	C1
3434	A2
3435	A2
3436	A2
3437	A2
3438	A2
3440	B3
3441	B3
3442	B3
3444	B3
3446	B3
3448	B2
3450	B2
3452	B2
3454	B2
3460	C1
3462	B2
3463	C2
3464	C2
3465	B1
3467	C1
3471	C3
3472	B3
3473	C4
3474	B1
3475	B1
3476	B1
3477	B1
3480	B2
3600	B5
3601	B5
3602	B5
3603	B5
3604	C4
3605	B5
3610	C5
3611	B5
3612	B5
3613	C5
3614	C5
3615	C5
3616	C4
3617	C5
3618	C5
3619	C5
3620	C5
3621	C5
3622	B5
3624	C4
3625	B5
3626	B5
3630	B5
3631	B5
3632	B5
3633	A2
3634	A2
3635	C4
3636	B5
3637	C4
3638	C4
3997	B3
4001	C4
4002	B1
4003	B2
4005	B4
4007	A4
4008	C1
4009	A3
4011	C4
4012	C2
4013	A3
4014	B2
4015	B2
4016	C5
4017	A4
4018	B4
4019	B4
4020	C4
4021	B4
4022	C1
4023	A1
4024	C2
4025	C2
4026	B3
4027	C2
4028	C3
4029	C4
4046	A3
4047	A1
4048	A3
4049	A1
4300	C1
4402	C2
4403	C2
4404	C2
4410	C2
4411	C2
4415	A3
4417	C2
4418	C2
4419	C2
4420	C2
4421	C2
4631	B5
4632	B5
4633	A2
4634	C5
5048	C2
5118	C4
5155	A3
5157	A4
5170	B4
5175	A4
5190	B4
5400	A2
5402	A3
5403	A3
5406	B1
5408	B1
5410	C1
6300	B2
6301	C4
6464	C2
6471	B1
7103	B5
7105	B4
7125	B4
7126	B4
7200	B4
7210	B4
7233	C4
7234	C4
7235	C4
7330	B1
7335	C2
7337	C1
7338	C1
7350	B4
7380	B1
7381	A1
7385	A1
7387	A1
7400	A2
7402	A2
7404	A2
7406	A2
7408	B2
7410	C2
7466	C1
7470	C1
7471	C1
7472	C1
7473	B1
7610	C5
7630	B5
7755	C3
9001	C1
9002	B4
9003	A4
9004	A4
9007	B4
9010	C2
9011	C3
9012	C2
9013	C2
9014	A5
9015	A2
9016	A2
9017	A3
9018	A3
9020	C1
9024	B2
9025	A2
9026	A2
9027	A1
9028	A1
9029	A1
9030	A1
9031	B1
9032	B2
9033	B1
9034	B1
9035	B1
9036	B1
9039	A1
9040	B4
9041	C2
9042	B1
9045	C3
9046	A4
9048	C2
9050	B3
9051	B3
9052	B2
9404	A3

Picture in picture / Bild im Bild /

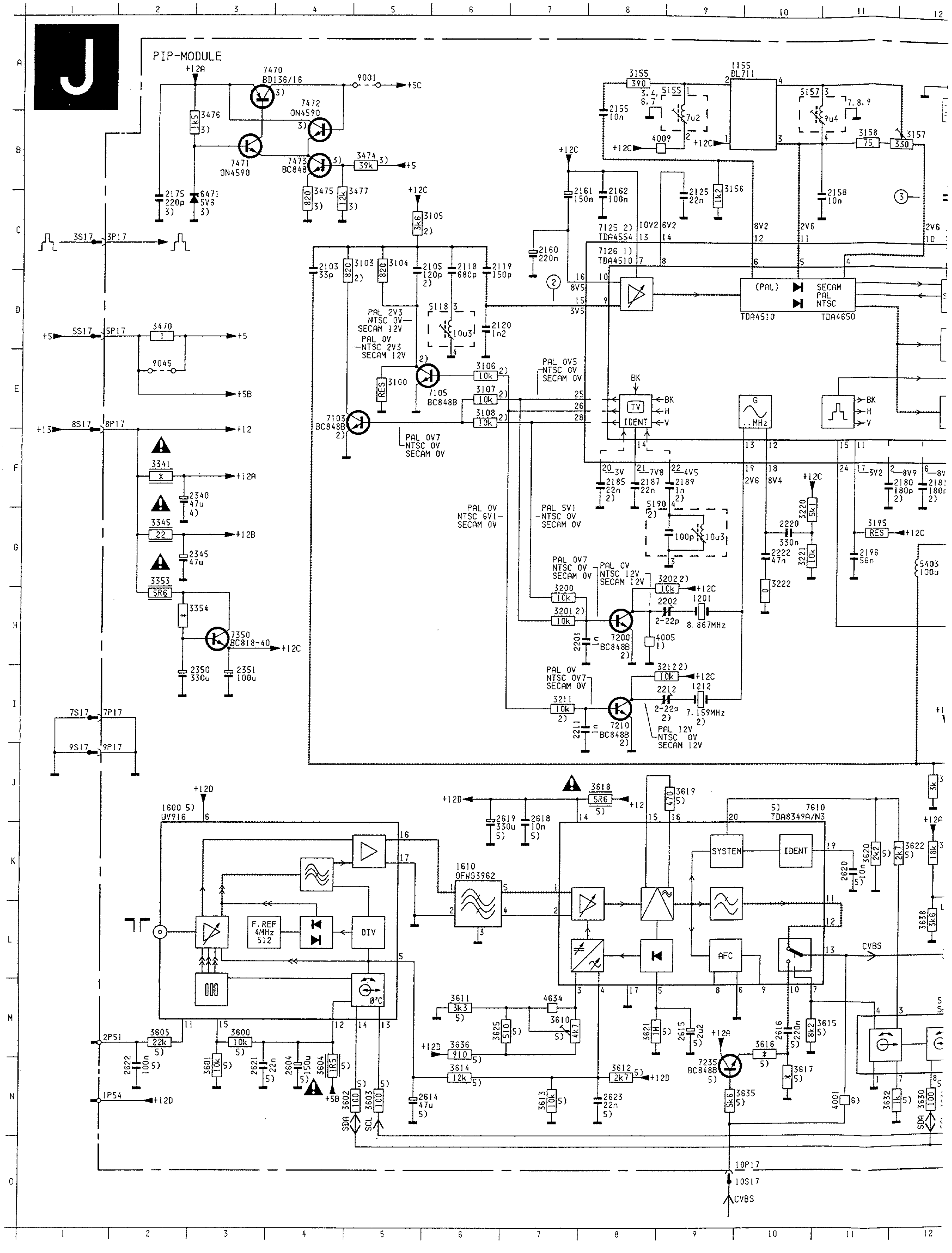
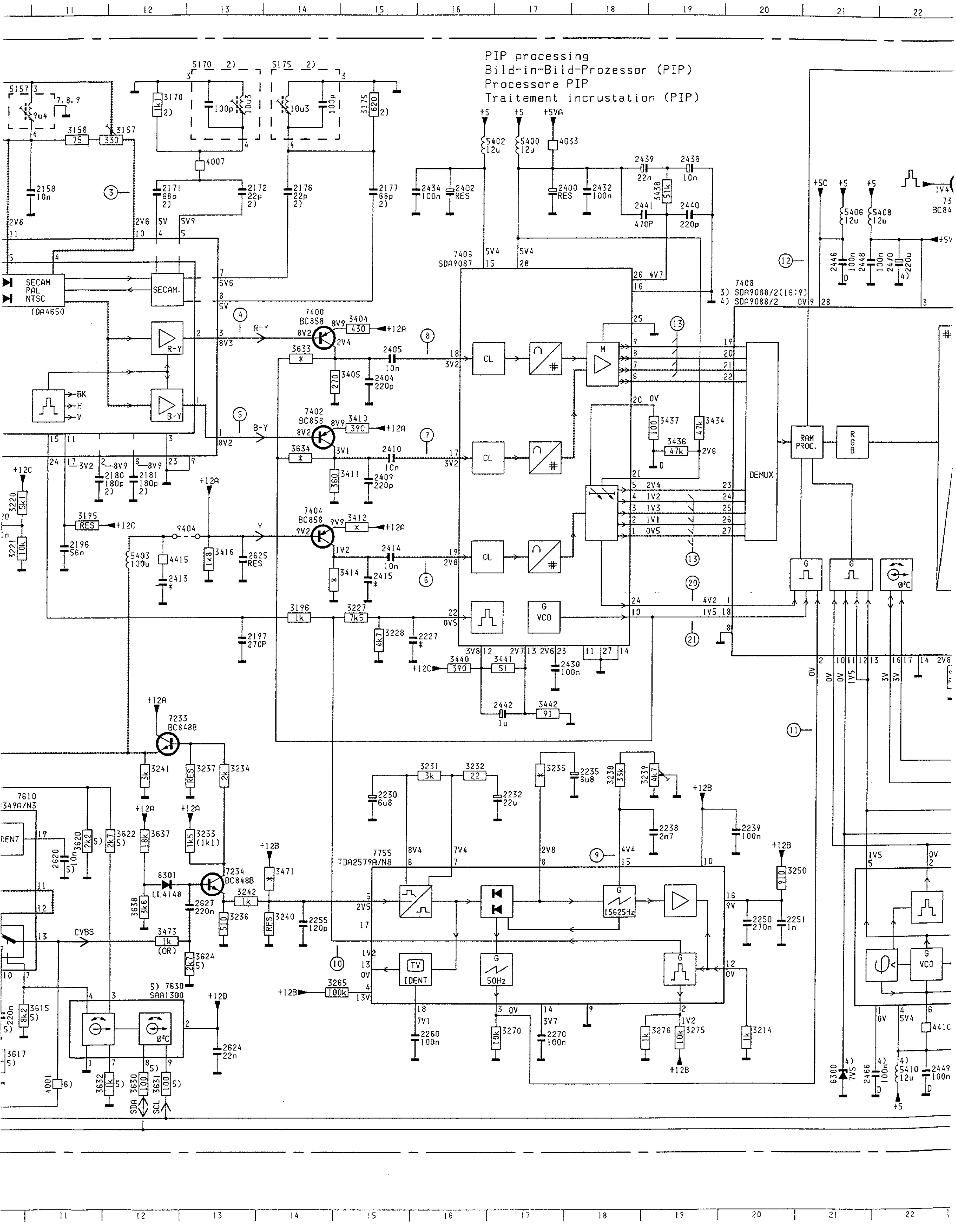
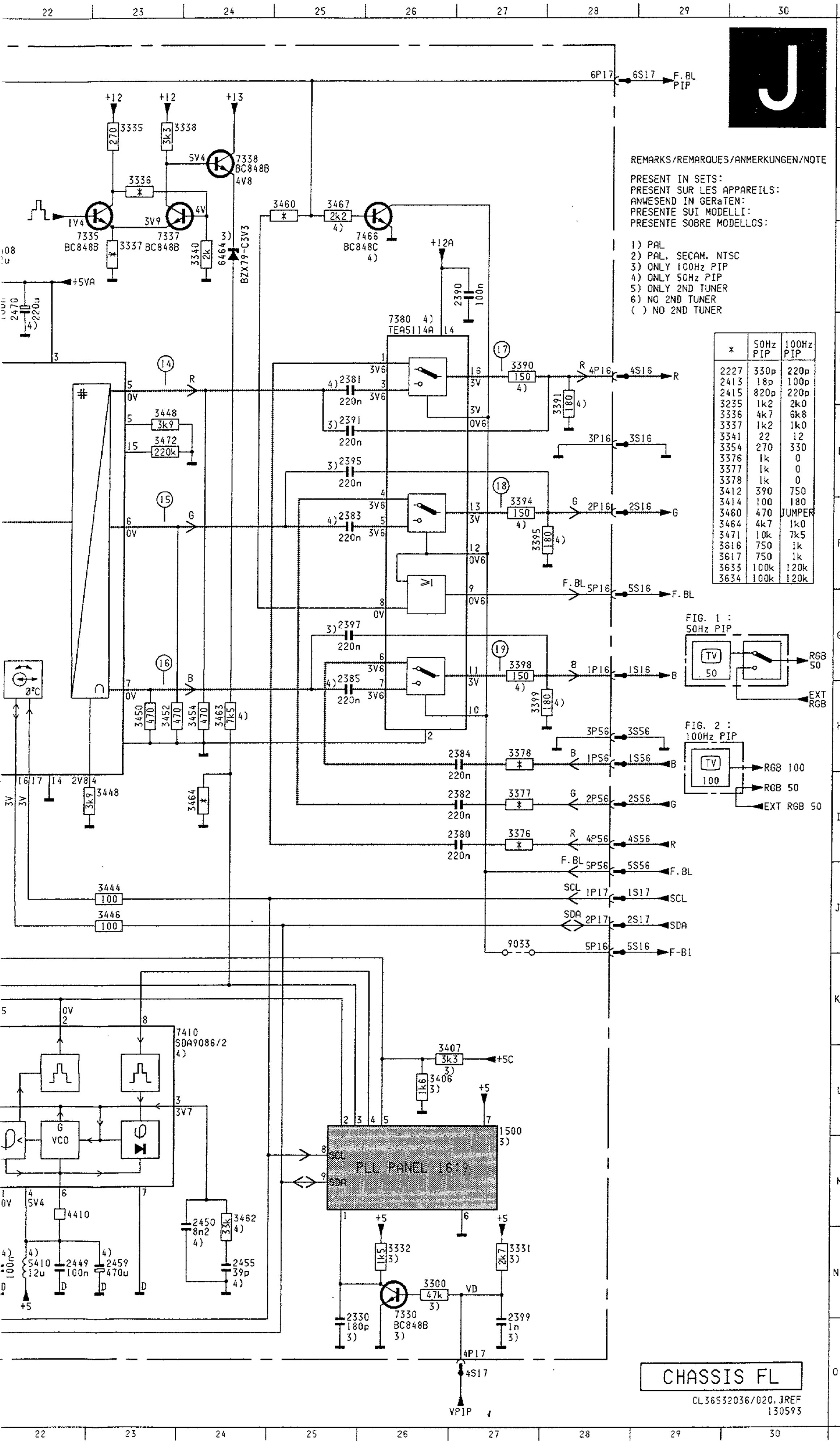

J
PIP-MODULE
+12A
7470 BD136/16
9001
+5C
7472 0N4590
3476 1k5
7471 0N4590
7473 BC848
3474 39k
+5
2175 220p
6471 5V6
3475 820
3477 12k
3S17
3P17
5S17
5P17
3470
9045
+5B
8S17
8P17
+13
+12
3341
2340 47u
+12A
3345 22
2345 47u
+12B
3353 5R6
3354
7350 BC818-40
+12C
2350 330u
2351 100u
7S17
7P17
9S17
9P17
3105 3k6
2103 33p
3103 820
3104 820
2105 120p
2118 680p
2119 150p
5118 10u3
2120 1n2
PAL 2V3 NTSC 0V SECAM 12V
PAL 0V NTSC 2V3 SECAM 12V
3100 RES
7105 BC848B
7103 BC848B
3106 10k
3107 10k
3108 10k
PAL 0V7 NTSC 0V SECAM 0V
PAL 0V5 NTSC 0V SECAM 0V
PAL 0V NTSC 6V1 SECAM 0V
PAL 5V1 NTSC 0V SECAM 0V
2160 220n
2161 150n
2162 100n
7125 TDA4554
7126 TDA4510
10V2
6V2
8V5
3V5
2125 22n
3156 1k2
3155 390
2155 10n
5155 7u2
4009
1155 DL711
5157 9u4
3158 75
3157 330
2158 10n
8V2
2V6
(PAL)
SECAM PAL NTSC
TDA4510
TDA4650
BK
IDENT
H
V
G
..MHz
2185 22n
2187 22n
2189 1n
5190 100p 10u3
3V
7V8
4V5
8V4
3V2
8V9
2180 180p
2181 180p
3220 5k1
2220 330n
2222 47n
3221 10k
3222
3195 RES
2196 56n
5403 100u
3200 10k
3201
3202 10k
2202 2-22p
1201 8.867MHz
4005
7200 BC848B
2201
PAL 0V7 NTSC 0V SECAM 0V
PAL 0V NTSC 12V SECAM 12V
3211 10k
3212 10k
2212 2-22p
1212 7.159MHz
7210 BC848B
2211
PAL 0V NTSC 0V7 SECAM 0V
PAL 12V NTSC 0V SECAM 12V
+12D
1600 UV916
F.REF 4MHz 512
DIV
0°C
3618 5R6
3619 470
2619 330u
2618 10n
1610 OFWG3962
7610 TDA8349A/N3
SYSTEM
IDENT
AFC
CVBS
2620 10n
3620 2k2
3622 2k7
18k
3638 3k6
2P51
3605 22k
2622 100n
3600 10k
3601 10k
2621 22n
2604 150u
3604 1R5
+5B
3602 100
3603 100
SDA
SCL
2614 47u
3611 3k3
4634
3610 4k7
3625 510
3636 910
3614 12k
3613 10k
3612 2k7
2623 22n
3621 1M
2615 2u2
7235 BC848B
3635 5k6
3616
3617
2616 220n
3615 8k2
4001
3632 1k
3630 100
1P54
10P17
10S17
CVBS

Image dans l'image


PIP processing
Bild-in-Bild-Prozessor (PIP)
Processore PIP
Traitement incrustation (PIP)
7406 SDA9087
7408
3) SDA9088/2(16:9)
4) SDA9088/2
TDA4650
SECAM
PAL
NTSC
SECAM.
R-Y
B-Y
BK
H
V
7400 BC858
7402 BC858
7404 BC858
CL
M
DEMUX
RAM PROC.
R G B
VCO
7233 BC848B
7234 BC848B
6301 LL4148
7610
7630 SAA1300
7755 TDA2579A/N8
TV IDENT
15625Hz
50Hz
CVBS
SDA
SCL
+12A
+12B
+12C
+12D
+5
+5VA
0°C


22
23
24
25
26
27
28
29
30
+12
+12
+13
3335
270
3338
3k3
5V4
7338
BC848B
4V8
3336
1V4
7335
BC848B
3V9
4V
7337
BC848B
3337
3340
2k
6464
3)
BZX79-C3V3
+5VA
2470
220u
4)
3460
3467
2k2
4)
7466
BC848C
4)
+12A
2390
100n
6P17
6S17
F.BL
PIP
7380 4)
TEA5114A
14
14
R
15
G
16
B
17
18
19
3390
150
4)
3391
180
4)
3394
150
3395
180
3398
150
3399
180
2381
2391
2395
2383
2397
2385
220n
3448
3k9
3472
220k
4P16
4S16
3P16
3S16
2P16
2S16
5P16
5S16
1P16
1S16
F.BL
3V6
3V
0V6
0V
3450
470
3452
470
3454
470
3463
7k5
3464
3P56
3S56
1P56
1S56
2P56
2S56
4P56
4S56
5P56
5S56
2384
2382
2380
3378
3377
3376
SCL
1P17
1S17
SDA
2P17
2S17
3444
100
3446
100
9033
5P16
5S16
F-B1
FIG. 1 :
50Hz PIP
TV
50
RGB 50
EXT RGB
FIG. 2 :
100Hz PIP
TV
100
RGB 100
RGB 50
EXT RGB 50
0°C
7410
SDA9086/2
4)
VCO
3V7
4410
5410
12u
2449
100n
2459
470u
2450
8n2
4)
3462
33k
4)
2455
39p
4)
3407
3k3
3)
+5C
3406
1k6
3)
+5
1500
3)
PLL PANEL 16:9
SCL
SDA
+5
+5
3332
1k5
3)
3331
2k7
3)
7330
BC848B
3)
3300
47k
3)
VD
2330
180p
3)
2399
1n
3)
4P17
4S17
VPIP

J

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERaTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL
2) PAL. SECAM. NTSC
3) ONLY 100Hz PIP
4) ONLY 50Hz PIP
5) ONLY 2ND TUNER
6) NO 2ND TUNER
( ) NO 2ND TUNER

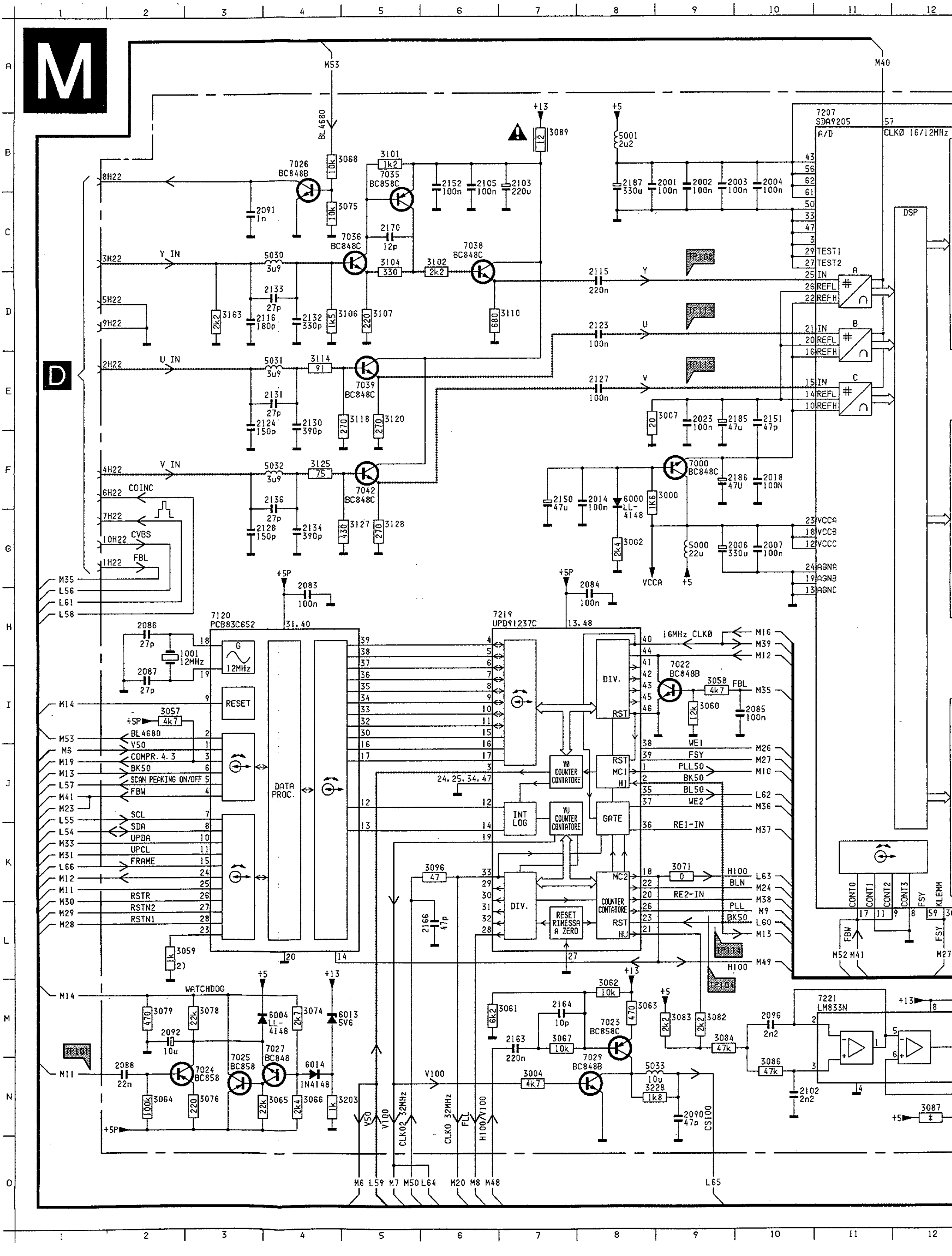
*	50Hz PIP	100Hz PIP
2227	330p	220p
2413	18p	100p
2415	820p	220p
3235	1k2	2k0
3336	4k7	6k8
3337	1k2	1k0
3341	22	12
3354	270	330
3376	1k	0
3377	1k	0
3378	1k	0
3412	390	750
3414	100	180
3460	470	JUMPER
3464	4k7	1k0
3471	10k	7k5
3616	750	1k
3617	750	1k
3633	100k	120k
3634	100k	120k

CHASSIS FL

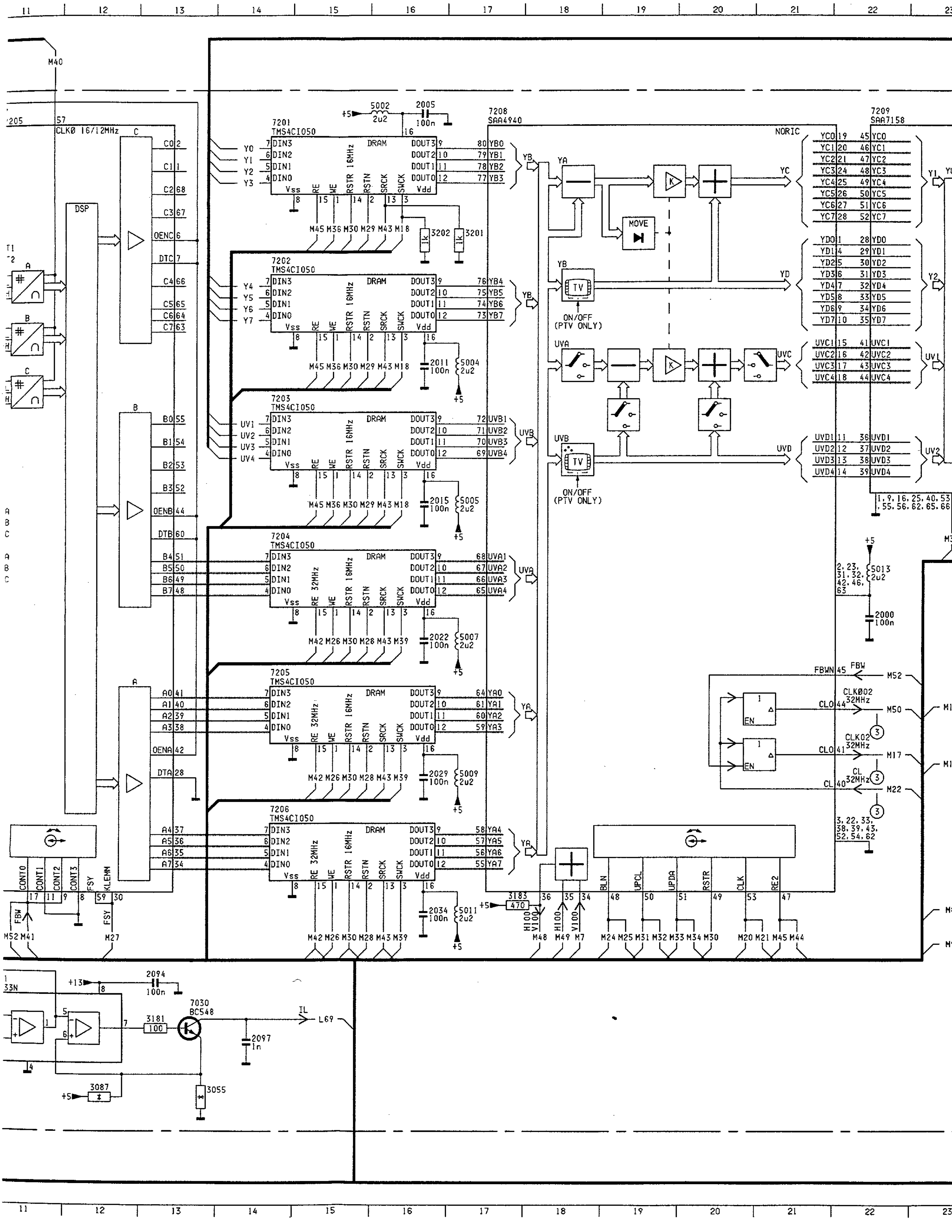
CL36532036/020.JREF
130593

1155	A 9	3201	H 7	4007	B13
1201	H 9	3202	G 9	4009	B 8
1212	I 9	3211	I 7	4033	B17
1500	L27	3212	I 9	4410	M22
1600	J 2	3214	M20	4415	G12
1610	K 6	3220	G10	4634	M 7
2103	D 4	3221	G10	5118	D 5
2105	D 5	3222	G10	5155	A 8
2118	D 6	3227	H15	5157	A10
2119	D 6	3228	H15	5170	A13
2120	D 6	3231	J16	5175	A14
2125	C 9	3232	J16	5190	G 8
2155	B 8	3233	K13	5400	B17
2158	C11	3234	J13	5402	B16
2160	C 7	3235	J17	5403	G12
2161	C 7	3236	L13	5406	C21
2162	C 8	3237	J13	5408	C21
2171	C12	3238	J18	5410	N22
2172	C13	3239	J19	6300	N21
2175	C 2	3240	L14	6301	K12
2176	C14	3241	J12	6464	C24
2177	C15	3242	L13	6471	C 3
2180	F11	3250	K20	7103	E 4
2181	F12	3265	M15	7105	E 5
2185	F 8	3270	M17	7125	C 8
2187	F 8	3275	M19	7126	C 8
2189	F 9	3276	M19	7200	H 8
2196	G11	3300	N26	7210	I 8
2197	H13	3331	N27	7233	I12
2201	H 7	3332	N26	7234	K13
2202	H 9	3335	A23	7235	N 9
2211	I 7	3336	B23	7330	N26
2212	I 9	3337	C23	7335	C23
2220	G10	3338	A23	7337	C23
2222	G10	3340	C24	7338	B24
2227	H16	3341	F 2	7350	H 3
2230	J15	3345	G 2	7380	D26
2232	J17	3353	G 2	7400	D14
2235	J18	3354	H 2	7402	E14
2238	K19	3376	I27	7404	G14
2239	K20	3377	I27	7406	C16
2250	L20	3378	H27	7408	D20
2251	L20	3390	D27	7410	K23
2255	L14	3391	D28	7466	C26
2260	M16	3394	F27	7470	A 3
2270	M17	3395	F27	7471	B 3
2330	O25	3398	G27	7472	A 4
2340	F 2	3399	H27	7473	B 4
2345	G 2	3404	D15	7610	J11
2350	I 2	3405	E15	7630	M13
2351	I 3	3406	L26	7755	K15
2380	I27	3407	L26	9001	A 5
2381	D25	3410	F15	9033	J27
2382	I27	3411	F15	9045	E 2
2383	F25	3412	G15	9404	G13
2384	H27	3414	G15		
2385	H25	3416	G13		
2390	C27	3434	E19		
2391	E25	3436	F19		
2395	E25	3437	E19		
2397	G25	3438	C19		
2399	O27	3440	I16		
2400	C17	3441	I17		
2402	C16	3442	I17		
2404	E15	3444	J23		
2405	E15	3446	J23		
2409	F15	3448	E23		
2410	F15	3448	I23		
2413	H12	3450	H23		
2414	G15	3452	H23		
2415	H15	3454	H24		
2430	I17	3460	B25		
2432	C18	3462	M24		
2434	C16	3463	H24		
2438	B19	3464	I24		
2439	B18	3467	B25		
2440	C19	3470	D 2		
2441	C18	3471	K14		
2442	I17	3472	E23		
2446	C21	3473	L12		
2448	C21	3474	B 5		
2449	N22	3475	B 4		
2450	M24	3476	B 3		
2455	N24	3477	B 4		
2459	N23	3600	M 3		
2466	N21	3601	N 3		
2470	C22	3602	N 5		
2604	N 4	3603	N 5		
2614	N 5	3604	N 4		
2615	M 9	3605	M 2		
2616	M10	3610	M 7		
2618	K 7	3611	M 6		
2619	K 6	3612	N 8		
2620	K11	3613	N 7		
2621	N 3	3614	N 6		
2622	N 2	3615	M11		
2623	N 8	3616	M10		
2624	N13	3617	N10		
2625	G13	3618	J 8		
2627	L13	3619	J 9		
3100	E 5	3620	K11		
3103	C 5	3621	M 8		
3104	C 5	3622	K12		
3105	C 5	3624	L13		
3106	E 6	3625	M 6		
3107	E 6	3630	N12		
3108	E 6	3631	N12		
3155	A 8	3632	N12		
3156	B 9	3633	E14		
3157	B12	3634	F14		
3158	B11	3635	N10		
3170	A12	3636	M 6		
3175	A15	3637	K12		
3195	G11	3638	L12		
3196	H14	4001	N11		
3200	H 7	4005	H 8		

LFR box FLx.24/.26 (Digital Scan)

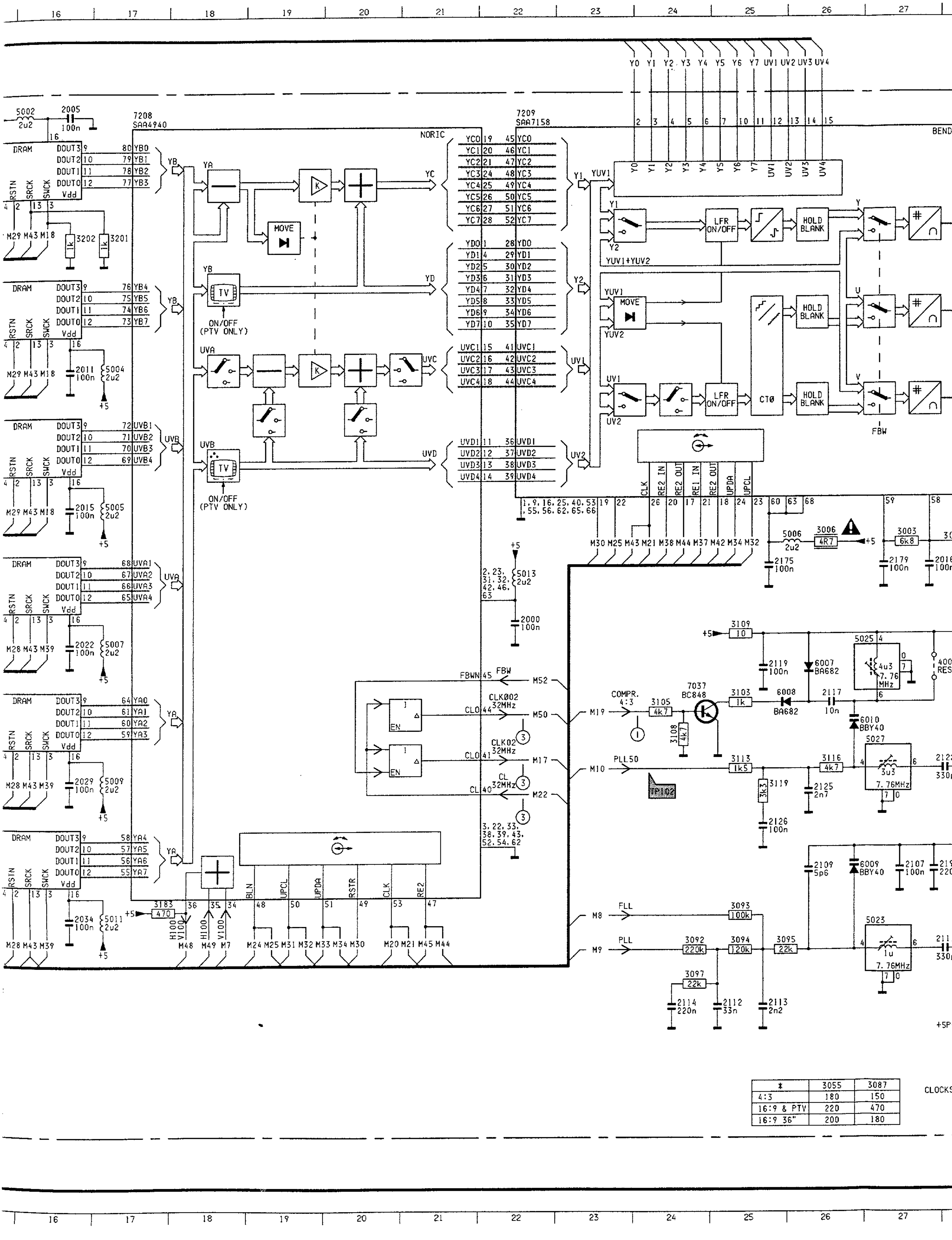

M
D
M53
M40
BL4680
3068 10k
3075 10k
7026 BC848B
3101 1k2
7035 BC858C
2091 1n
2152 100n
2105 100n
2103 220u
3089
+13
+5
5001 2u2
2187 330u
2001 100n
2002 100n
2003 100n
2004 100n
7207 SDA9205
A/D
57 CLK0 16/12MHz
DSP
TEST1
TEST2
IN
REFL
REFH
8H22
3H22 Y_IN
5H22
9H22
2H22 U_IN
4H22 V_IN
6H22 COINC
7H22
10H22 CVBS
1H22 FBL
5030 3u9
2133 27p
2116 180p
2132 330p
3163 2k2
3106 1k5
3107 220
7036 BC848C
2170 12p
3104 330
3102 2k2
7038 BC848C
3110 680
2115 220n
Y
TP108
2123 100n
U
TP113
2127 100n
V
TP115
5031 3u9
3114 91
7039 BC848C
2131 27p
2124 150p
2130 390p
3118 270
3120 270
5032 3u9
3125 75
7042 BC848C
2136 27p
2128 150p
2134 390p
3127 430
3128 270
3007 20
2023 100n
2185 47u
2151 47p
7000 BC848C
2186 47U
2018 100N
2150 47u
2014 100n
6000 LL-4148
3000 1K6
3002 2k4
5000 22u
2006 330u
2007 100n
VCCA
VCCB
VCCC
AGNA
AGNB
AGNC
M35
L56
L61
L58
+5P
2083 100n
7120 PCB83C652
31,40
2086 27p
1001 12MHz
2087 27p
12MHz
RESET
M14
3057 4k7
M53 BL4680
M6 V50
M19 COMPR.4.3
M13 BK50
L57 SCAN PEAKING ON/OFF
M41 FBW
M23
L55 SCL
L54 SDA
M33 UPDA
M31 UPCL
L66 FRAME
M12
M11
M30 RSTR
M29 RSTN2
M28 RSTN1
DATA PROC.
3059 1k
2)
7219 UPD91237C
13,48
2084 100n
16MHz CLK0
M16
M39
M12
DIV.
7022 BC848B
3058 4k7
FBL
M35
3060 12k
2085 100n
RST
WE1 M26
FSY M27
PLL50 M10
BK50
BL50 L62
WE2 M36
RE1-IN M37
MC1
HI
V0 COUNTER CONTATORE
VU COUNTER CONTATORE
INT LOG
GATE
24,25,34,47
3096 47
2166 47p
3071 0
H100 L63
BLN M24
RE2-IN M38
PLL M9
BK50 L60
M13
MC2
COUNTER CONTATORE
RESET RIMESSA A ZERO
HU
TP114
H100 M49
TP104
CONT0
CONT1
CONT2
CONT3
FSY
KLEMM
FBW
M52 M41
M27
WATCHDOG
3079 470
3078 22k
2092 10u
6004 LL-4148
3074 2k7
6013 5V6
TP101
2088 22n
7024 BC858
7025 BC858
7027 BC848
6014 1N4148
3064 100k
3076 220
3065 22k
3066 2k4
3203 1k
+5P
V50
V100
CLK02 32MHz
CLK0 32MHz
FLL
H100/V100
3062 10k
3061 6k2
2164 10p
3063 470
7023 BC858C
2163 220n
3067 10k
3083 2k2
3082 2k2
3084 47k
3004 4k7
7029 BC848B
5033 10u
3228 1k8
2090 47p
CS100
7221 LM833N
2096 2n2
3086 47k
2102 2n2
3087
M6 L59 M7 M50 L64 M20 M8 M48 L65

LFR box FLx.24/.26 (Digital Scan)



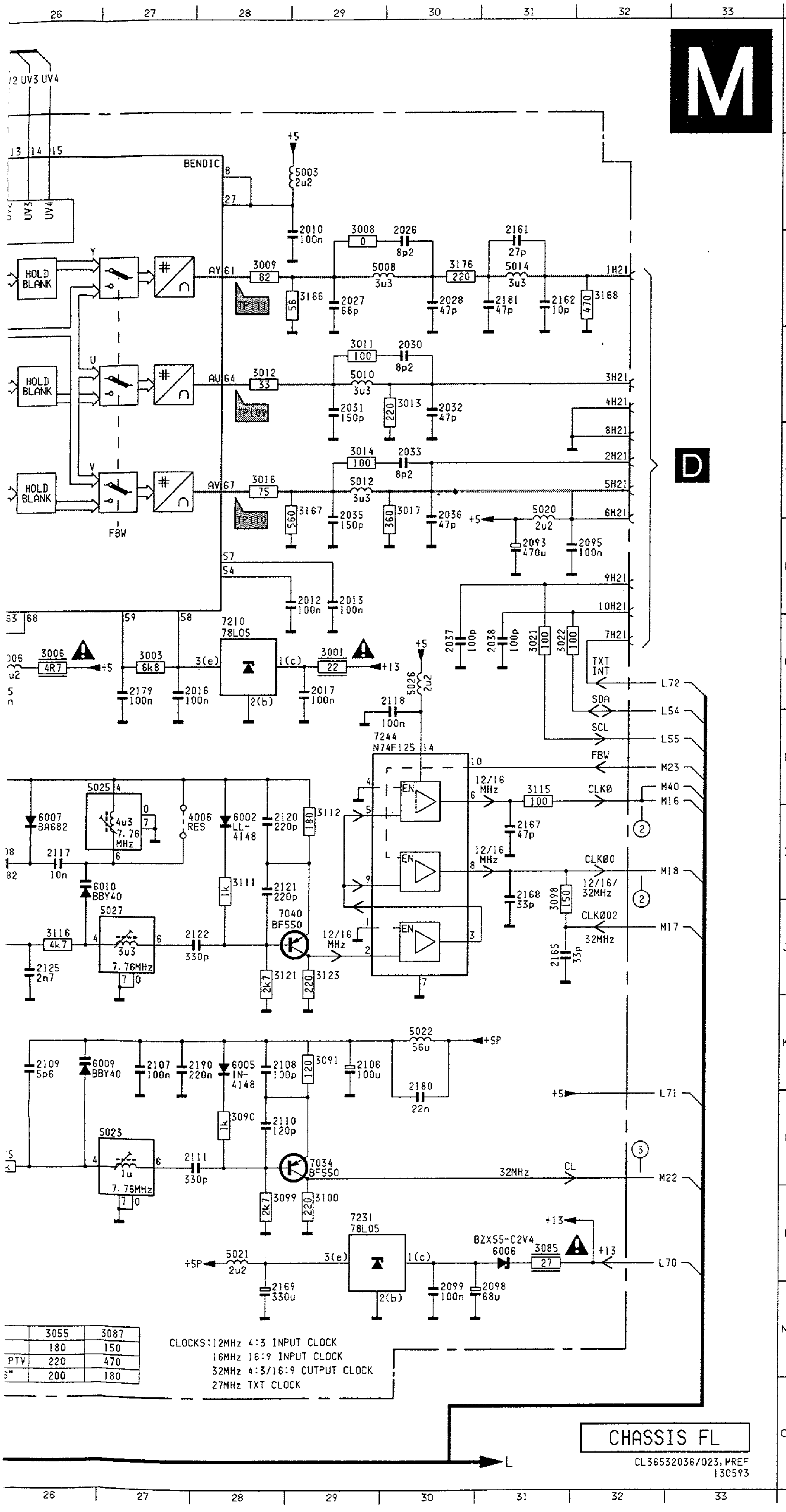
11 12 13 14 15 16 17 18 19 20 21 22 23
M40
57 CLK0 16/12MHz
DSP
C
C0 2
C1 1
C2 68
C3 67
OENC 6
DTC 7
C4 66
C5 65
C6 64
C7 63
B
B0 55
B1 54
B2 53
B3 52
OENB 44
DTB 60
B4 51
B5 50
B6 49
B7 48
A
A0 41
A1 40
A2 39
A3 38
OENA 42
DTA 28
A4 37
A5 36
A6 35
A7 34
CONT0 CONT1 CONT2 CONT3 FSY KLEMM
17 11 9 8 59 30
FBW FSY
M52 M41 M27
5002 2u2
2005 100n
+5
7201 TMS4C1050
7202 TMS4C1050
7203 TMS4C1050
7204 TMS4C1050
7205 TMS4C1050
7206 TMS4C1050
DIN3 DIN2 DIN1 DIN0 DRAM DOUT3 DOUT2 DOUT1 DOUT0 Vss RE WE RSTR RSTN SRCK SWCK Vdd
RSTR 16MHz
RE 32MHz
Y0 Y1 Y2 Y3
Y4 Y5 Y6 Y7
UV1 UV2 UV3 UV4
M45 M36 M30 M29 M43 M18
M42 M26 M30 M28 M43 M39
3202 1k
3201 1k
2011 100n
5004 2u2
2015 100n
5005 2u2
2022 100n
5007 2u2
2029 100n
5009 2u2
2034 100n
5011 2u2
7208 SAA4940
NORIC
YB0 YB1 YB2 YB3 YB4 YB5 YB6 YB7
UVB1 UVB2 UVB3 UVB4
UVA1 UVA2 UVA3 UVA4
YA0 YA1 YA2 YA3 YA4 YA5 YA6 YA7
YA YB UVB UVA
MOVE
TV
ON/OFF (PTV ONLY)
YC YD UVC UVD
7209 SAA7158
YC0 YC1 YC2 YC3 YC4 YC5 YC6 YC7
YD0 YD1 YD2 YD3 YD4 YD5 YD6 YD7
UVC1 UVC2 UVC3 UVC4
UVD1 UVD2 UVD3 UVD4
Y1 Y2 UV1 UV2
1, 9, 16, 25, 40, 53, 55, 56, 62, 65, 66
2, 23, 31, 32, 42, 46, 63
5013 2u2
2000 100n
FBWN 45 FBW M52
CLK002 32MHz CL0 44 M50
CLK02 32MHz CL0 41 M17
CL 32MHz CL 40 M22
EN
3, 22, 33, 38, 39, 43, 52, 54, 62
3183 470
H100 V100
BLN UPCL UPDA RSTR CLK RE2
36 35 34 48 50 51 49 53 47
M48 M49 M7 M24 M25 M31 M32 M33 M34 M30 M20 M21 M45 M44
+13
2094 100n
33N
7030 BC548
3181 100
IL L69
2097 1n
3087
3055

LFR box FLx.24/.26 (Digital Scan)


16
17
18
19
20
21
22
23
24
25
26
27
7208
SAA4940
NORIC
7209
SAA7158
DRAM
DOUT3
DOUT2
DOUT1
DOUT0
Vdd
RSTN
SRCK
SWCK
5002 2u2
2005 100n
3202 1k
3201 1k
M29 M43 M18
M28 M43 M39
YB0 YB1 YB2 YB3
YB4 YB5 YB6 YB7
UVB1 UVB2 UVB3 UVB4
UVA1 UVA2 UVA3 UVA4
YA0 YA1 YA2 YA3
YA4 YA5 YA6 YA7
YA
YB
UVA
UVB
YC
YD
UVC
UVD
MOVE
TV
ON/OFF (PTV ONLY)
K
2011 100n
5004 2u2
2015 100n
5005 2u2
2022 100n
5007 2u2
2029 100n
5009 2u2
2034 100n
5011 2u2
+5
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7 UV1 UV2 UV3 UV4
BEND
Y1
Y2
YUV1
YUV2
YUV1+YUV2
UV1
UV2
LFR ON/OFF
HOLD BLANK
CTØ
FBW
Y
U
V
CLK RE2 IN RE2 OUT RE1 IN RE2 OUT UPDA UPCL
1, 9, 16, 25, 40, 53, 55, 56, 62, 65, 66
M30 M25 M43 M21 M38 M44 M37 M42 M34 M32
5006 2u2
3006 4R7
3003 6k8
2175 100n
2179 100n
2016 100n
2, 23, 31, 32, 42, 46, 63
5013 2u2
2000 100n
FBWN 45 FBW M52
CLK002 32MHz CLO 44 M50
CLK02 32MHz CLO 41 M17
CL 32MHz CL 40 M22
EN
3, 22, 33, 38, 39, 43, 52, 54, 62
BLN UPCL UPDA RSTR CLK RE2
3183 470
H100 V100
M48 M49 M7
M24 M25 M31 M32 M33 M34 M30
M20 M21 M45 M44
3109 10
2119 100n
6007 BA682
5025 4u3 7.76MHz
4001 RES
COMPR. 4:3
M19
3105 4k7
7037 BC848
3108 4k7
3103 1k
6008 BA682
2117 10n
6010 BBY40
5027 3u3 7.76MHz
PLL50
M10
3113 1k5
3116 4k7
3119 3k3
2125 2n7
2126 100n
TP102
2122 330n
2109 5p6
6009 BBY40
2107 100n
FLL
M8
3093 100k
PLL
M9
3092 220k
3094 120k
3095 22k
3097 22k
2114 220n
2112 33n
2113 2n2
5023 1u 7.76MHz
2111 330n
+5P
CLOCKS

*	3055	3087
4:3	180	150
16:9 & PTV	220	470
16:9 36"	200	180

LFR box FLx.24/.26 (Digital Scan)


26
27
28
29
30
31
32
33
M
D
UV3 UV4
13 14 15
BENDIC
+5
5003
2u2
2010
100n
3008
0
2026
8p2
2161
27p
3176
220
5014
3u3
5008
3u3
HOLD BLANK
AY 61
3009
82
TP111
3166
56
2027
68p
2028
47p
2181
47p
2162
10p
470
3168
1H21
3011
100
2030
8p2
5010
3u3
AU 64
3012
33
TP109
2031
150p
220
3013
2032
47p
3H21
4H21
8H21
3014
100
2033
8p2
2H21
5012
3u3
AV 67
3016
75
5H21
TP110
560
3167
2035
150p
360
3017
2036
47p
+5
5020
2u2
6H21
2093
470u
2095
100n
FBW
57
54
2012
100n
2013
100n
9H21
10H21
7H21
2037
100p
2038
100p
3021
100
3022
100
59
58
7210
78L05
3006
4R7
+5
3003
6k8
3(e)
1(c)
3001
22
+13
2(b)
2179
100n
2016
100n
2017
100n
5026
2u2
TXT INT
L72
SDA
L54
SCL
L55
2118
100n
7244
N74F125
14
10
FBW
M23
EN
12/16 MHz
3115
100
CLK0
M40
M16
2167
47p
12/16 MHz
CLK00
M18
12/16/ 32MHz
2168
33p
3098
150
CLK002
32MHz
M17
2165
33p
5025
4u3
7.76 MHz
6007
BA682
4006
RES
6002
LL-4148
2120
220p
3112
180
2117
10n
6010
BBY40
3111
1k
2121
220p
7040
BF550
5027
3116
4k7
3u3
7.76MHz
2122
330p
12/16 MHz
2125
2n7
2k7
3121
220
3123
5022
56u
+5P
2109
5p6
6009
BBY40
2107
100n
2190
220n
6005
IN-4148
2108
100p
3091
120
2106
100u
2180
22n
+5
L71
3090
1k
2110
120p
5023
1u
7.76MHz
2111
330p
7034
BF550
32MHz
CL
M22
2k7
3099
220
3100
7231
78L05
+13
BZX55-C2V4
6006
3085
27
+13
L70
+5P
5021
2u2
3(e)
1(c)
2(b)
2169
330u
2099
100n
2098
68u
L

	3055	3087
	180	150
PTV	220	470
"	200	180

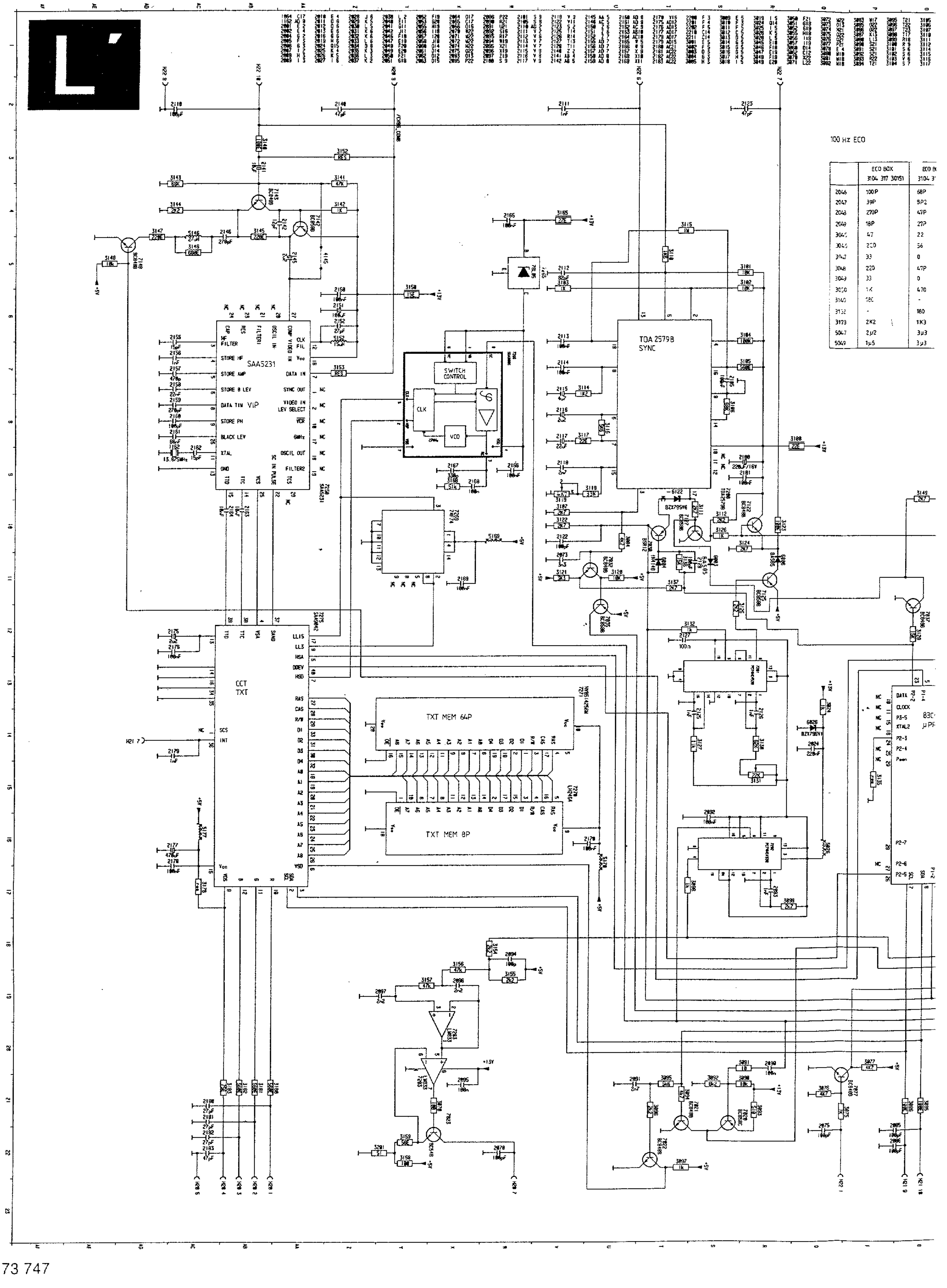
CLOCKS:12MHz 4:3 INPUT CLOCK
16MHz 16:9 INPUT CLOCK
32MHz 4:3/16:9 OUTPUT CLOCK
27MHz TXT CLOCK

CHASSIS FL

CL36532036/023.MREF
130593

1001	H 2	3021	G31	7026	B 4		
2000	H22	3022	G31	7027	M 4		
2001	B 9	3055	N13	7029	N 8		
2002	B 9	3057	I 2	7030	M13		
2003	B 9	3058	I 9	7034	L29		
2004	B10	3059	L 2	7035	B 5		
2005	B16	3060	I 9	7036	C 5		
2006	G 9	3061	M 6	7037	I24		
2007	G10	3062	M 8	7038	C 6		
2010	C29	3063	M 8	7039	E 5		
2011	E16	3064	N 2	7040	J29		
2012	F29	3065	N 4	7042	F 5		
2013	F29	3066	N 4	7120	H 3		
2014	F 8	3067	M 7	7201	B14		
2015	G16	3068	B 4	7202	D14		
2016	G27	3071	K 9	7203	E14		
2017	G29	3074	M 4	7204	G14		
2018	F10	3075	C 4	7205	I14		
2022	H16	3076	N 3	7206	K14		
2023	E 9	3078	M 3	7207	B11		
2026	C30	3079	M 2	7208	B17		
2027	C29	3082	M 9	7209	B22		
2028	C30	3083	M 9	7210	G28		
2029	J16	3084	M 9	7219	H 6		
2030	D30	3085	M31	7221	M11		
2031	D29	3086	N10	7231	M29		
2032	D30	3087	N12	7244	H29		
2033	E30	3089	B 7				
2034	L16	3090	L28				
2035	F29	3091	K29				
2036	F30	3092	L24				
2037	G30	3093	L25				
2038	G31	3094	L25				
2083	H 4	3095	L25				
2084	H 8	3096	K 6				
2085	I10	3097	M24				
2086	H 2	3098	I31				
2087	I 2	3099	M28				
2088	N 2	3100	M29				
2090	N 9	3101	B 5				
2091	C 3	3102	C 6				
2092	M 2	3103	I25				
2093	F31	3104	C 5				
2094	M13	3105	I24				
2095	F32	3106	D 4				
2096	M10	3107	D 5				
2097	N14	3108	J24				
2098	N31	3109	H25				
2099	N30	3110	D 7				
2102	N10	3111	I28				
2103	B 7	3112	I29				
2105	B 6	3113	J25				
2106	K29	3114	E 4				
2107	K27	3115	H31				
2108	K28	3116	J26				
2109	K26	3118	E 5				
2110	L28	3119	J25				
2111	L28	3120	E 5				
2112	M25	3121	J28				
2113	M25	3123	J29				
2114	M24	3125	F 4				
2115	D 8	3127	G 5				
2116	D 3	3128	G 5				
2117	I26	3163	D 3				
2118	G30	3166	C29				
2119	I25	3167	E29				
2120	I28	3168	C32				
2121	I28	3176	C30				
2122	J28	3181	M13				
2123	D 8	3183	L17				
2124	E 3	3201	C17				
2125	J26	3202	C16				
2126	K25	3203	N 4				
2127	E 8	3228	N 8				
2128	G 3	4006	I27				
2130	E 4	5000	G 9				
2131	E 4	5001	B 8				
2132	D 4	5002	B16				
2133	D 4	5003	B29				
2134	G 4	5004	E17				
2136	F 4	5005	G17				
2150	F 7	5006	G26				
2151	E10	5007	H17				
2152	B 6	5008	C29				
2161	C31	5009	J17				
2162	C31	5010	D29				
2163	M 7	5011	L17				
2164	M 7	5012	E29				
2165	J31	5013	G22				
2166	L 6	5014	C31				
2167	I31	5020	E31				
2169	N28	5021	M28				
2170	C 5	5022	K30				
2175	G25	5023	L27				
2179	G27	5025	H26				
2180	K30	5026	G30				
2181	C31	5027	J27				
2185	E 9	5030	C 4				
2186	F 9	5031	E 4				
2187	B 8	5032	F 4				
2190	K27	5033	N 8				
3000	F 9	6000	F 8				
3001	G29	6002	I28				
3002	G 8	6004	M 4				
3003	G27	6006	M31				
3004	N 7	6007	I26				
3006	G26	6008	I25				
3007	E 9	6009	K26				
3008	C29	6010	I26				
3009	C28	6013	M 4				
3011	D29	6014	N 4				
3012	D28	7000	F 9				
3013	D30	7022	I 9				
3014	E29	7023	M 8				
3016	E28	7024	N 3				
3017	E30	7025	N 3				

100 Hz / TXT (FLx.27)


L´
SAA5231
VIP
TDA 2579B
SYNC
SWITCH CONTROL
CLK
VCO
CCT
TXT
TXT MEM 64P
TXT MEM 8P
BZX79SV6
BC848B
BC858B
LM833
BC548
+5V
+13V

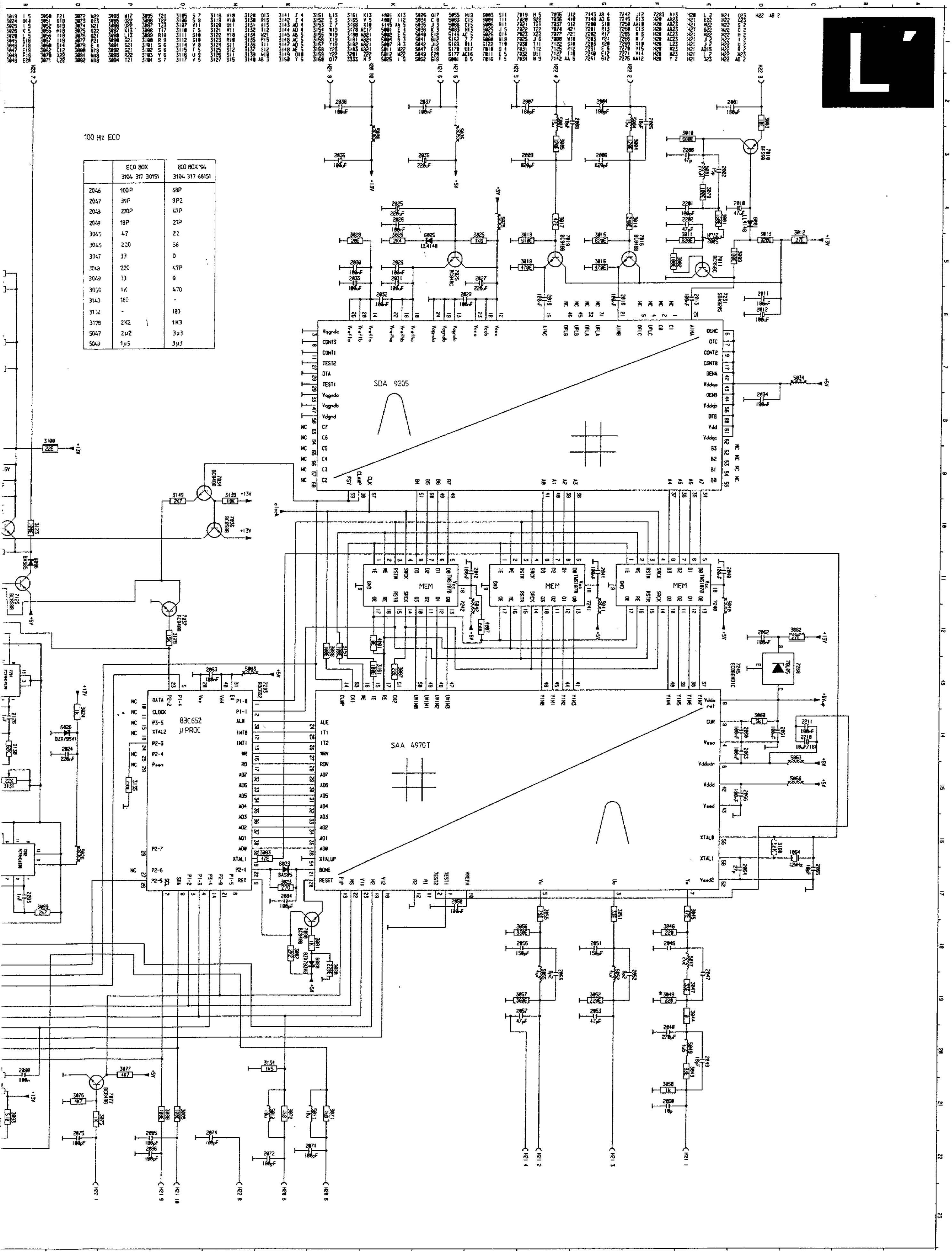
100 Hz ECO

	ECO BOX 3104 317 30151	ECO B 3104 3
2046	100P	68P
2047	39P	8P2
2048	270P	47P
2049	18P	27P
3045	47	22
3046	220	56
3047	33	0
3048	220	47P
3049	33	0
3050	1K	470
3140	180	-
3132	-	180
3173	2K2	1K3
5047	2µ2	3µ3
5049	1µ5	3µ3

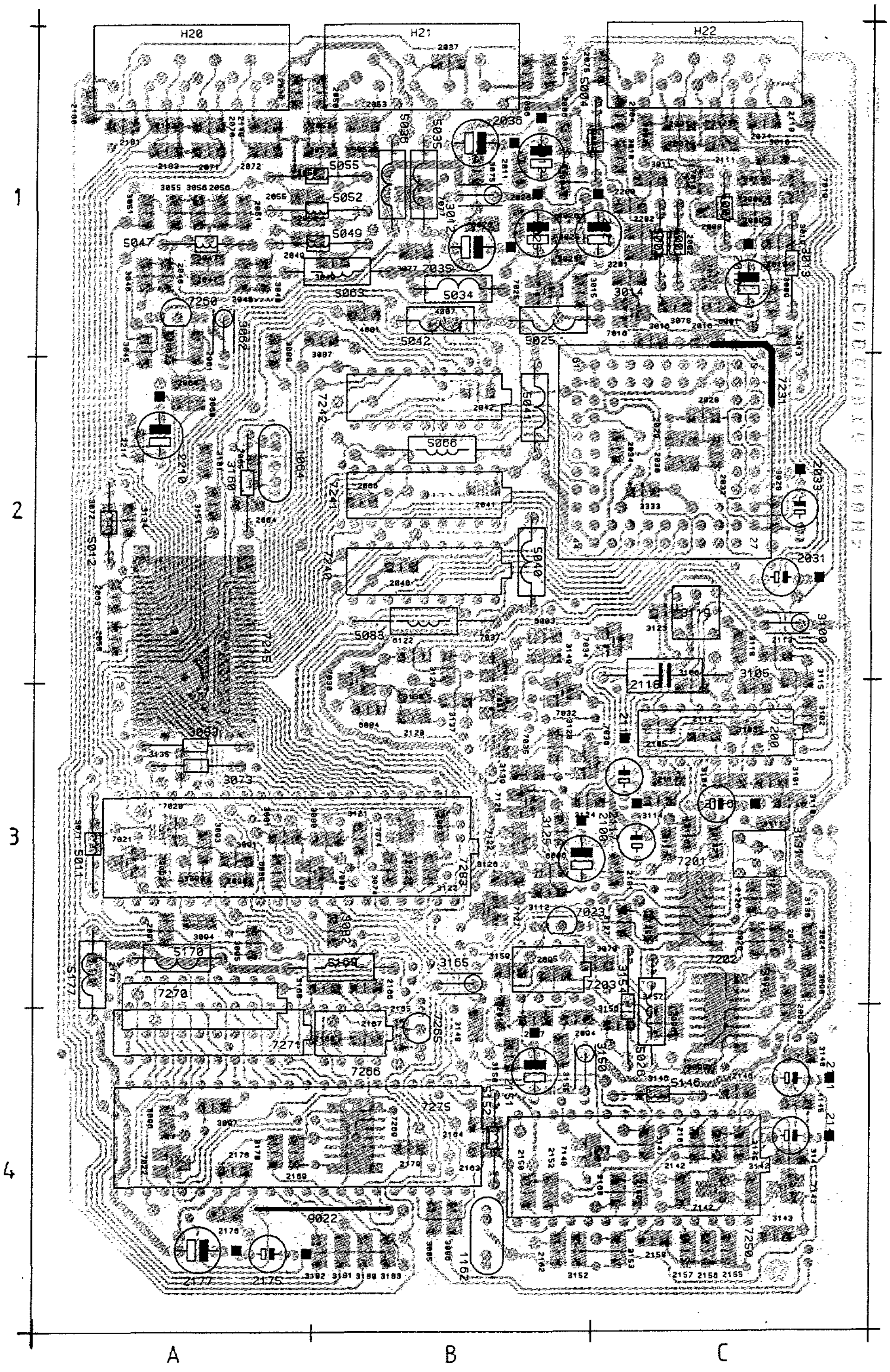
3019 I 5	3050 F21	3072 N22	3083 M17	3095 T21	3105 S 7	3118 V10	3128 O13	3141 Z 4	3151 L13	3161 K13	4001 K13	5026 O17	5055 H19	6003 S11	7019 H 5	7035 U12	7143 AB 4	7242 J12	7283 N13	H20 L 2	H21 O23	H22 AB 2
3024 O14	3051 G18	3073 O13	3085 O22	3096 T22	3106 S 8	3119 V10	3130 R15	3142 Z 4	3152 Z 3	3165 V 5	4007 I12	5034 C 8	5063 C15	6004 T11	7020 S22	7036 M10	7148 AD 6	7245 E13	H20 AB23	H21 E22	H22 O23	
3025 I 5	3052 G19	3074 N21	3086 O22	3097 T23	3107 V11	3120 U11	3131 R15	3143 AD 4	3153 Z 7	3168 X10	4145 AA 5	5035 J 3	5066 C15	6006 R11	7021 T21	7037 O12	7200 S10	7250 AA10	H20 AB23	H21 M22	H22 S 2	
3026 K 5	3055 H18	3075 O22	3087 K13	3098 T17	3110 T 5	3121 V11	3132 T12	3144 AD 4	3154 W19	3178 AC17	5001 E 4	5036 K 3	5083 M13	6025 J 5	7022 T22	7074 N21	7201 R13	7260 C13	H20 AB23	H21 G22	H22 O 2	
3028 L 5	3056 I18	3076 Q21	3088 L13	3099 R18	3111 S10	3122 Y10	3134 W21	3145 AB 5	3155 W19	3180 AB21	5002 E 5	5040 E12	5146 AC 5	6026 O14	7023 X22	7077 P21	7202 R17	7265 R 6	H20 AC23	H21 M22	H22 H 2	
3045 E18	3057 I19	3077 P21	3090 S21	3100 R 9	3112 S10	3123 R10	3135 P15	3146 AC 5	3156 X19	3181 AB21	5004 G 3	5041 G12	5152 Z 7	6080 M18	7025 J 6	7080 M18	7203 Y21	7266 R 7	H20 AC23	H21 J 2	H22 I 2	
3046 F18	3060 D14	3078 E 4	3091 S21	3101 S 6	3114 V 8	3124 S11	3136 T11	3147 AD 5	3157 Y19	3182 AB21	5007 H 3	5042 J12	5169 W11	6122 T10	7030 T11	7122 S10	7205 X20	7269 X10	H20 L23	H21 J 2	H22 U 2	
3047 E19	3062 C12	3080 M18	3092 S21	3102 S 6	3115 T 5	3125 S12	3137 S12	3148 AE 5	3158 Y23	3183 AB21	5011 W22	5047 E19	5170 U17	7010 D 4	7031 T12	7125 R12	7231 E 6	7270 V15	H20 M23	H21 AD15	H22 R 2	
3048 F18	3070 X22	3081 M18	3093 R22	3103 V 6	3116 U 9	3126 S11	3139 N10	3149 O10	3159 Y22	3201 Z22	5012 W22	5049 E20	5177 AC16	7011 E 5	7032 U11	7127 T10	7240 E12	7271 V14	H20 M23	H21 L 2	H22 M23	
3049 E20	3071 L22	3082 M18	3094 T21	3104 S 7	3117 V 9	3127 S15	3140 AB 3	3150 Y 6	3160 O17	3333 M 5	5025 I 5	5052 G19	6001 D 5	7016 F 5	7034 M 9	7142 AA 5	7241 G12	7275 AA12	H20 Y 2	H21 O23	H22 AD 2	

100 Hz ECO

	ECO BOX 3104 317 30151	ECO BOX '94 3104 317 66151
2046	100P	68P
2047	39P	8P2
2048	270P	47P
2049	18P	27P
3045	47	22
3046	220	56
3047	33	0
3048	220	47P
3049	33	0
3050	1K	470
3140	180	-
3132	-	180
3178	2K2	1K3
5047	2µ2	3µ3
5049	1µ5	3µ3



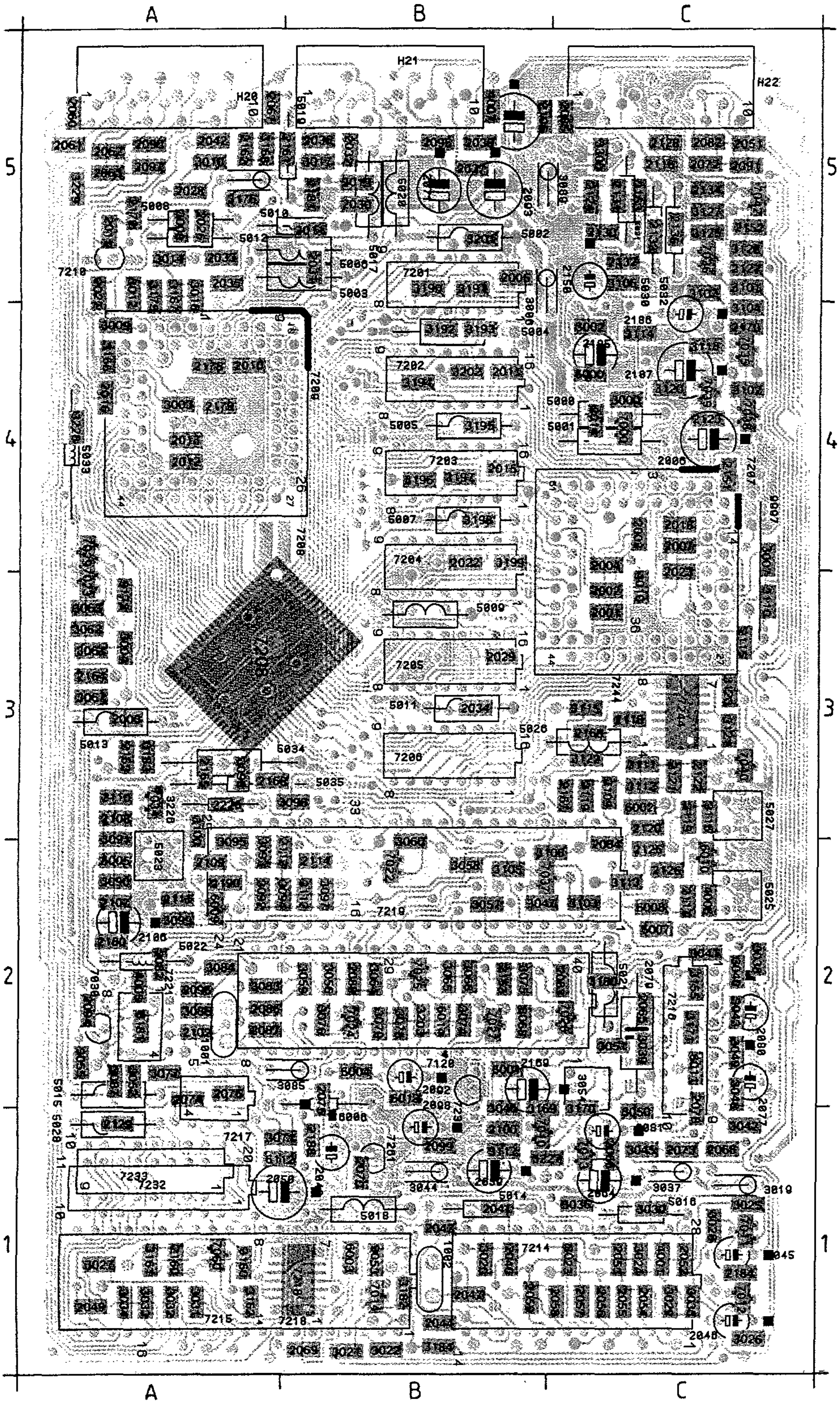
100 Hz / TXT



H20 A1	2013 C1	2037 B1	2058 A2	2090 A3	2115 C3	2151 B4	2169 A4	3004 B1
H21 B1	2016 C1	2038 A1	2060 A2	2091 A3	2116 C3	2152 B4	2170 A3	3005 C1
H22 C1	2019 C1	2040 B2	2061 A1	2092 C3	2117 C3	2155 C4	2175 A4	3009 C1
1064 A2	2024 C3	2041 B2	2062 A1	2093 C3	2118 C2	2156 C4	2176 A4	3010 C1
1162 B4	2025 B1	2042 B2	2063 A2	2094 B4	2122 B3	2157 C4	2177 A4	3011 C1
2001 C1	2026 B1	2046 A1	2064 A2	2095 B3	2123 C1	2158 C4	2178 A4	3012 B1
2002 C1	2027 C1	2047 A1	2065 A2	2096 C4	2125 C3	2159 C4	2179 B4	3013 C1
2004 C1	2028 C2	2048 A1	2066 B2	2097 B4	2126 C3	2160 C4	2181 A1	3014 C1
2005 C1	2029 C2	2049 A1	2070 A1	2100 B3	2127 C3	2161 C4	2182 A1	3015 B1
2006 B1	2030 C2	2050 B1	2071 A1	2101 C3	2128 B3	2162 B4	2183 A1	3016 C1
2007 C1	2031 C2	2051 A1	2072 A1	2105 C3	2140 A1	2163 B4	2200 C1	3017 C1
2008 C1	2032 C2	2052 A1	2074 C1	2110 C1	2141 C4	2164 B4	2201 C1	3018 C1
2009 C1	2033 C2	2053 B1	2075 C1	2111 C1	2142 C4	2165 B4	2202 C1	3019 C1
2010 C1	2034 C2	2055 A1	2083 B3	2112 C3	2145 C4	2166 B3	2210 A2	3024 C3
2011 B1	2035 B1	2056 A1	2085 B1	2113 C2	2146 C4	2167 B4	2211 A2	3025 B1
2012 B1	2036 B1	2057 B1	2086 B1	2114 C3	2150 B4	2168 B4	3003 C1	3026 B1

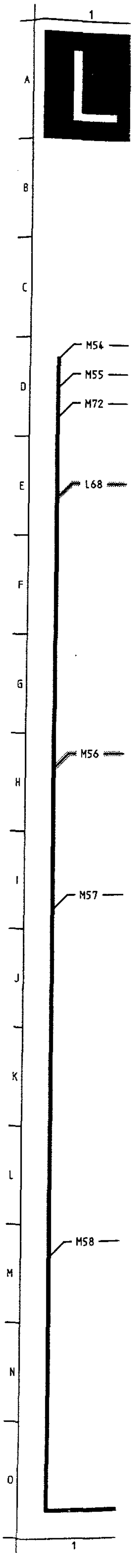
3028 C2	3159 B3
3045 A1	3160 A2
3046 A1	3161 A2
3047 A1	3165 B3
3048 A1	3168 B3
3049 B1	3178 A4
3050 A1	3180 B4
3051 A1	3181 B4
3052 B1	3182 B4
3055 A1	3183 B4
3056 A1	3201 B4
3057 B1	3333 C2
3060 A2	4001 B1
3062 A1	4007 B1
3070 C3	4145 C4
3071 A3	5001 C1
3072 A2	5002 C1
3073 A3	5004 C1
3074 B3	5007 C1
3075 B1	5011 A3
3076 B1	5012 A2
3077 B1	5025 B1
3078 C1	5026 C4
3080 B3	5034 B1
3081 A3	5035 B1
3082 B3	5036 B1
3083 A3	5040 B2
3085 B4	5041 B2
3086 B4	5042 B1
3087 B1	5047 A1
3088 A1	5049 B1
3090 A3	5052 B1
3091 A3	5055 B1
3092 A3	5063 B1
3093 A3	5066 B2
3094 A3	5083 B2
3095 A3	5146 C4
3096 A4	5152 B4
3097 A4	5169 B3
3098 C3	5170 A3
3099 C4	5177 A3
3100 C2	6001 C1
3101 C3	6003 B2
3102 C3	6004 B3
3103 C3	6006 B3
3104 C3	6025 B1
3105 C3	6026 C3
3106 C3	6080 A3
3110 C3	6122 B2
3111 C3	7010 C1
3112 B3	7011 C1
3114 C3	7016 C1
3115 C3	7019 C1
3116 C3	7020 A3
3117 C3	7021 A3
3118 C2	7022 A4
3119 C2	7023 B3
3120 B3	7025 B1
3121 B3	7030 B2
3122 B3	7031 B3
3123 C2	7032 B3
3124 B3	7034 C2
3125 B3	7035 B3
3126 B3	7036 B3
3127 C3	7037 B2
3128 B2	7074 B3
3130 C3	7077 B1
3131 C3	7080 B3
3132 C3	7122 B3
3134 A2	7125 B3
3135 A3	7127 B3
3136 B3	7142 C4
3137 B3	7143 C4
3139 B3	7148 C4
3140 C4	7200 C3
3141 C4	7201 C3
3142 C4	7202 C4
3143 C4	7203 B3
3144 C4	7231 C2
3145 C4	7240 B2
3146 C4	7241 B2
3147 C4	7242 B2
3148 B4	7245 A2
3149 B2	7250 C4
3150 B4	7260 A1
3151 A2	7265 B4
3152 B4	7266 B4
3153 C4	7269 B4
3154 C4	7270 A3
3155 B4	7271 A4
3156 C4	7275 A4
3157 C4	7283 A3
3158 B4	9022 B4

LFR box

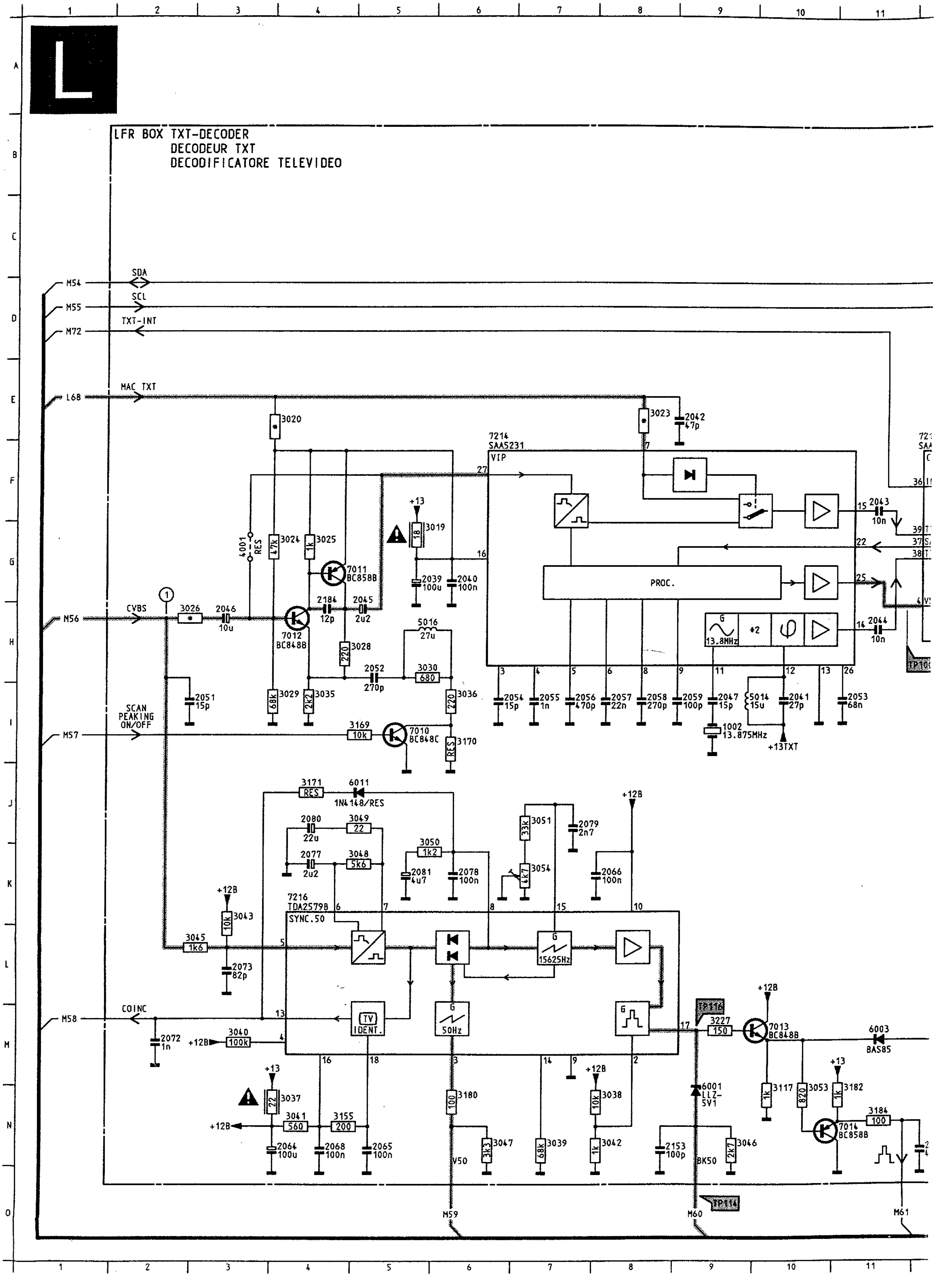


H20	A5	2013	A4	2034	B3	2050	A1	2067	A5	2083	C2	2100	B1	2118	C3	2134	C5
H21	B5	2014	C4	2035	A5	2051	C5	2068	C1	2084	C2	2102	A2	2119	C3	2136	C5
H22	C5	2015	B4	2036	B5	2052	C1	2069	B1	2085	C5	2103	B5	2120	C3	2150	C5
1001	A2	2016	A4	2037	B5	2053	C1	2070	B1	2086	A2	2105	B5	2121	C3	2151	C4
1002	B1	2017	A5	2038	B5	2054	C1	2071	B5	2087	A2	2106	A2	2122	C3	2152	C5
2000	A3	2018	C4	2039	B1	2055	C1	2072	C5	2088	B2	2107	A2	2123	C4	2153	B2
2001	C3	2022	B4	2040	B1	2056	C1	2073	C1	2090	A5	2108	A3	2124	C5	2160	A1
2002	C3	2023	C4	2041	B1	2057	C1	2074	A2	2091	C5	2109	A2	2125	C2	2161	A5
2003	C4	2026	A5	2042	A5	2058	C1	2075	B2	2092	B2	2110	A3	2126	C2	2162	A5
2004	C4	2027	A5	2043	B1	2059	B1	2076	A2	2093	B5	2111	A2	2127	C5	2163	A3
2005	B5	2028	A5	2044	B1	2060	A5	2077	C2	2094	A2	2112	B2	2128	C5	2164	A3
2006	C4	2029	B3	2045	C1	2062	A5	2078	C1	2095	B5	2113	A2	2129	A1	2165	A3
2007	C4	2030	B5	2046	C1	2063	A5	2079	C2	2096	A2	2114	B2	2130	C5	2166	A3
2010	A4	2031	B5	2047	B1	2064	C1	2080	C2	2097	A5	2115	C3	2131	C5	2167	C3
2011	B4	2032	B5	2048	B1	2065	C2	2081	C1	2098	B1	2116	C5	2132	C5	2168	C3
2012	A4	2033	A5	2049	A1	2066	C1	2082	C5	2099	B1	2117	C2	2133	C5	2169	B2

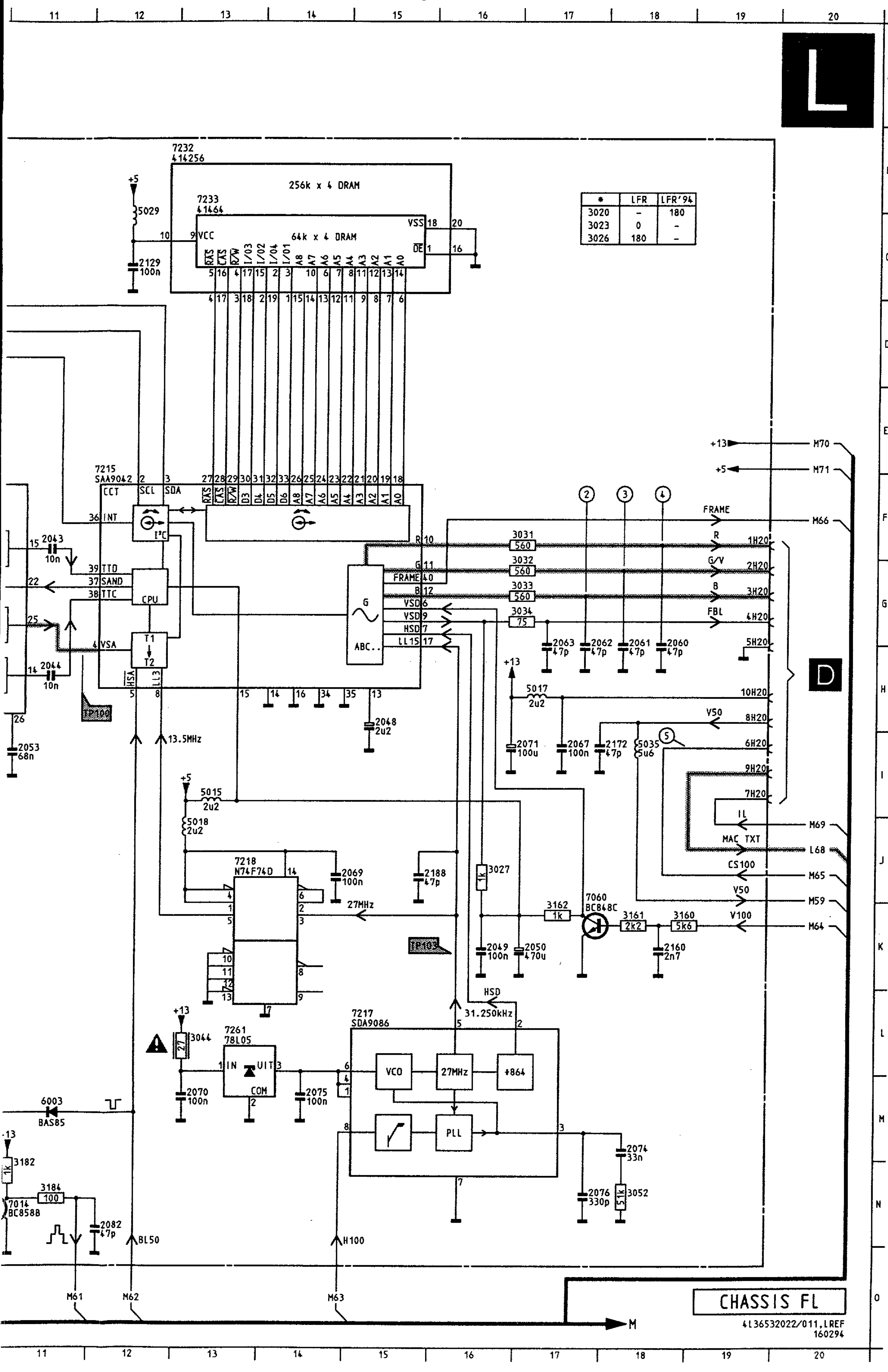
2170	C4	3092	A2	5018	B1
2172	A5	3093	A2	5019	B5
2175	A4	3094	A2	5020	B5
2179	A4	3095	A2	5021	C2
2180	A2	3096	B3	5022	A2
2181	B5	3097	B2	5023	A2
2184	C1	3098	A3	5025	C2
2185	C4	3099	A2	5026	C3
2186	C4	3100	A3	5027	C3
2187	C4	3101	C5	5028	A1
2188	B1	3102	C4	5030	C5
2190	A2	3103	C2	5031	C5
2226	A3	3104	C4	5032	C5
3000	C4	3105	B2	5033	A4
3001	A5	3106	C5	5034	A3
3002	C4	3107	C5	5035	A3
3003	A4	3108	B2	6000	C4
3004	A3	3109	C3	6001	B2
3006	B5	3110	C3	6002	C3
3007	C4	3111	C3	6003	B1
3008	A5	3112	C3	6004	B2
3009	A4	3113	C2	6005	A2
3010	A5	3114	C4	6006	B2
3011	B5	3115	C3	6007	C2
3012	A5	3116	C3	6008	C2
3013	B5	3117	B1	6009	A2
3014	A5	3118	C4	6010	C2
3016	A5	3119	C3	6011	C2
3017	B5	3120	C4	6013	B2
3019	C1	3121	C3	6014	B2
3020	B1	3122	C3	6112	A1
3021	B1	3123	C3	7000	C4
3022	B1	3125	C5	7010	B1
3023	C1	3127	C5	7011	C1
3024	C1	3128	C5	7012	C1
3025	C1	3155	C2	7013	C1
3026	C1	3160	A1	7014	B1
3027	A1	3161	A1	7022	B2
3028	C1	3162	A1	7023	A3
3029	C1	3163	C5	7024	B2
3030	C1	3166	A4	7025	B2
3031	A1	3167	A5	7026	C2
3032	A1	3168	A5	7027	B2
3033	A1	3169	B1	7029	A4
3034	A1	3170	C1	7030	A2
3035	C1	3171	C2	7034	A3
3036	C1	3172	A3	7035	C4
3037	C1	3175	A5	7036	C5
3038	C2	3176	A5	7037	B2
3039	C2	3180	C2	7038	C4
3040	C2	3181	A2	7039	C4
3041	C2	3182	B1	7040	C3
3042	C1	3183	A3	7042	C5
3043	C2	3184	B1	7060	A1
3044	B1	3190	B5	7120	B2
3045	C1	3191	B5	7201	B5
3046	B1	3192	B4	7202	B4
3047	B2	3193	B4	7203	B4
3048	C2	3194	B4	7204	B4
3049	C2	3195	B4	7205	B3
3050	C1	3196	B4	7206	B3
3051	C2	3197	B4	7207	C4
3052	A2	3198	B4	7208	A3
3053	B1	3199	B4	7209	A4
3054	C2	3201	B5	7210	A5
3055	A2	3202	B4	7214	C1
3056	B2	3203	B2	7215	A1
3057	B2	3226	A3	7216	C2
3058	B2	3227	B1	7217	A2
3059	B2	3228	A4	7218	B1
3060	B2	3229	A5	7219	B2
3061	A3	3300	C5	7221	A2
3062	A3	4001	C1	7231	B2
3063	A3	4005	A2	7232	A1
3064	B2	4006	C2	7233	A1
3065	B2	4007	B5	7244	C3
3066	B2	4010	C3	7261	B1
3067	A3	5000	C4	9997	C4
3068	B2	5001	C4		
3071	A1	5002	B5		
3074	B2	5003	B5		
3075	B2	5004	B4		
3076	B2	5005	B4		
3077	A2	5006	B5		
3078	B2	5007	B4		
3079	B2	5008	A5		
3082	A2	5009	B3		
3083	A2	5010	B5		
3084	A2	5011	B3		
3085	B2	5012	A5		
3086	A2	5013	A3		
3087	A2	5014	B1		
3089	B5	5015	A2		
3090	A2	5016	C1		
3091	A3	5017	B5		



LFR box (Digital Scan)

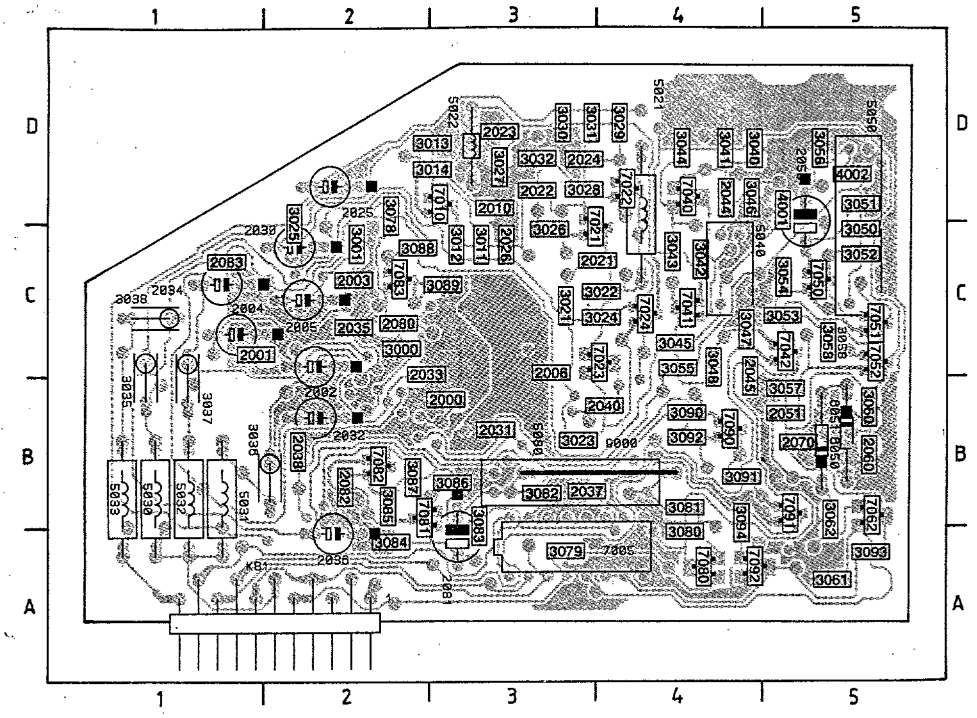

L
LFR BOX TXT-DECODER
DECODEUR TXT
DECODIFICATORE TELEVIDEO
M54
SDA
M55
SCL
M72
TXT-INT
L68
MAC TXT
M56
CVBS
M57
SCAN PEAKING ON/OFF
M58
COINC
3020
3023
2042 47p
7214 SAA5231
VIP
27
16
PROC.
13.8MHz
÷2
15
2043 10n
22
25
14
2044 10n
36
39
37
38
4001 RES
3024 47k
3025 1k
7011 BC858B
+13
3019 18
2039 100u
2040 100n
1
3026 *
2046 10u
7012 BC848B
2184 12p
2045 2u2
5016 27u
3028 220
2052 270p
3030 680
2051 15p
3029 68k
3035 2k2
3036 220
3169 10k
7010 BC848C
3170 RES
3 4 5 6 8 9 11 12 13 26
2054 15p
2055 1n
2056 470p
2057 22n
2058 270p
2059 100p
2047 15p
5014 15u
2041 27p
2053 68n
1002 13.875MHz
+13TXT
3171 RES
6011 1N4148/RES
2080 22u
3049 22
2077 2u7
3048 5k6
3050 1k2
2081 4u7
2078 100n
3051 33k
2079 2n7
3054 4k7
+12B
2066 100n
3043 10k
3045 1k6
2073 82p
7216 TDA2579B
SYNC.50
6 7 8 15 10 5 13 4
15625Hz
TV IDENT.
50Hz
2072 1n
3040 100k
16 18 3 14 9 2 17
+13
3037 22
3041 560
3155 200
2064 100u
2068 100n
2065 100n
3180 100
3047 3k3
V50
3039 68k
3038 10k
3042 1k
6001 LLZ-5V1
2153 100p
BK50
3046 2k7
TP116
3227 150
7013 BC848B
6003 BAS85
3117 1k
3053 820
3182 1k
3184 100
7014 BC858B
M59
M60
M61
TP114
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9 10 11

LFR box (Digital Scan)

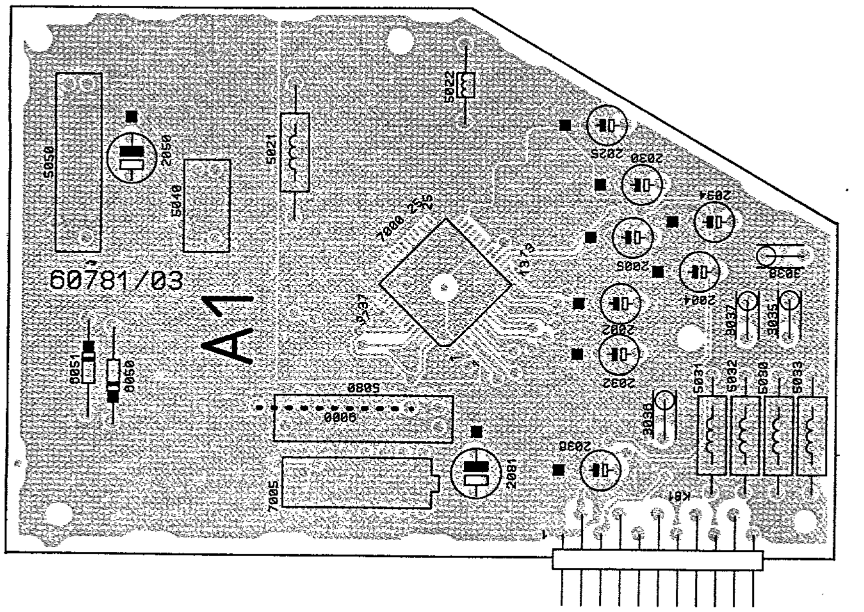

L
D
7232
414256
256k x 4 DRAM
7233
41464
64k x 4 DRAM
VCC
VSS
OE
RAS
CAS
R/W
I/03
I/02
I/04
I/01
A8
A7
A6
A5
A4
A3
A2
A1
A0
+5
5029
2129
100n
7215
SAA9042
CCT
SCL
SDA
INT
I²C
TTD
SAND
TTC
CPU
VSA
T1
T2
HSA
LL3
D3
D4
D5
D6
G
ABC..
FRAME
VSD
HSD
LL15
2043
10n
2044
10n
2053
68n
TP100
13.5MHz
2048
2u2
+13
+5
FRAME
R
G/V
B
FBL
3031
560
3032
560
3033
560
3034
75
1H20
2H20
3H20
4H20
5H20
10H20
8H20
6H20
9H20
7H20
M70
M71
M66
M69
L68
M65
M59
M64
IL
MAC TXT
CS100
V50
V100
2063
47p
2062
47p
2061
47p
2060
47p
5017
2u2
2071
100u
2067
100n
2172
47p
5035
5u6
5015
2u2
5018
2u2
7218
N74F74D
2069
100n
2188
47p
3027
1k
27MHz
TP103
7060
BC848C
3162
1k
3161
2k2
3160
5k6
2160
2n7
2049
100n
2050
470u
HSD
31.250kHz
+13
3044
27
7261
78L05
IN
UIT
COM
2070
100n
2075
100n
7217
SDA9086
VCO
27MHz
÷864
PLL
2074
33n
2076
330p
3052
5.1k
6003
BAS85
-13
3182
1k
3184
100
7014
BC858B
2082
47p
BL50
H100
M61
M62
M63
M
CHASSIS FL
4L36532022/011.LREF
160294

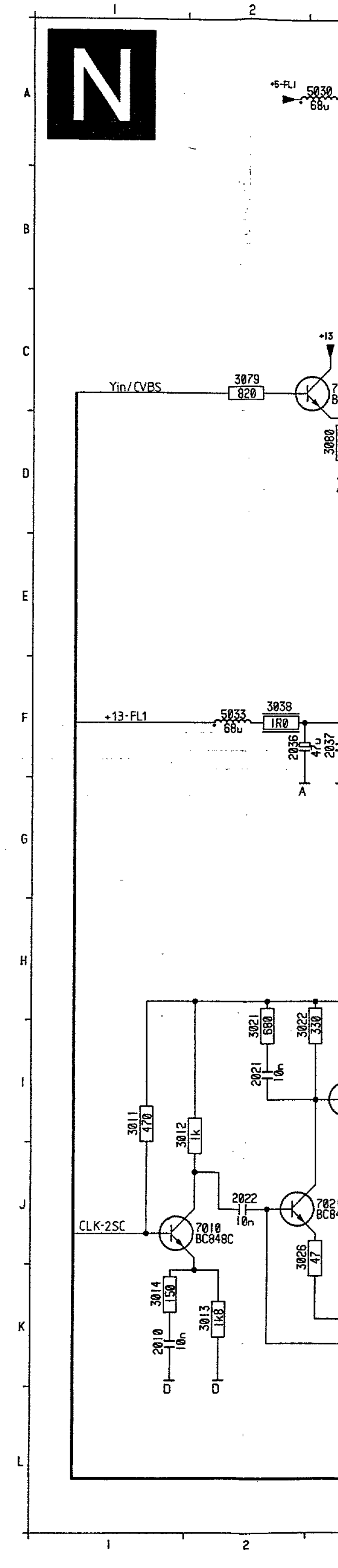
*	LFR	LFR'94
3020	-	180
3023	0	-
3026	180	-

1002	I 9
2039	G 5
2040	G 6
2041	I10
2042	E 9
2043	F11
2044	H11
2045	H 5
2046	H 3
2047	I 9
2048	H15
2049	K16
2050	K17
2051	I 3
2052	H 5
2053	I11
2054	I 6
2055	I 7
2056	I 7
2057	I 8
2058	I 8
2059	I 9
2060	H18
2061	H18
2062	H17
2063	H17
2064	N 4
2065	N 5
2066	K 8
2067	I17
2068	N 4
2069	J14
2070	M13
2071	I16
2072	M 2
2073	L 3
2074	M18
2075	M14
2076	N17
2077	K 4
2078	K 6
2079	J 7
2080	J 4
2081	K 5
2082	N12
2129	C12
2153	N 8
2160	K18
2172	I18
2184	H 4
2188	J15
3019	G 5
3020	E 4
3023	E 8
3024	G 4
3025	G 4
3026	H 2
3027	J16
3028	H 4
3029	I 4
3030	H 5
3031	F17
3032	G17
3033	G17
3034	G17
3035	I 4
3036	I 6
3037	N 4
3038	N 8
3039	N 7
3040	M 3
3041	N 4
3042	N 8
3043	K 3
3044	L13
3045	L 3
3046	N 9
3047	N 6
3048	K 5
3049	J 5
3050	K 5
3051	J 7
3052	N18
3053	M10
3054	K 7
3117	M10
3155	N 4
3160	K18
3161	K18
3162	K17
3169	I 5
3170	I 6
3171	J 4
3180	N 6
3182	M11
3184	N11
3227	M 9
4001	G 3
5014	I 9
5015	I13
5016	H 5
5017	H17
5018	J13
5035	I18
6001	N 9
6003	M11
6011	J 5
7010	I 5
7011	G 4
7012	H 4
7013	M10
7014	N11
7060	J17
7214	F 6
7215	F12
7216	K 4
7217	L15
7218	J13
7232	B12
7233	B13
7261	L13

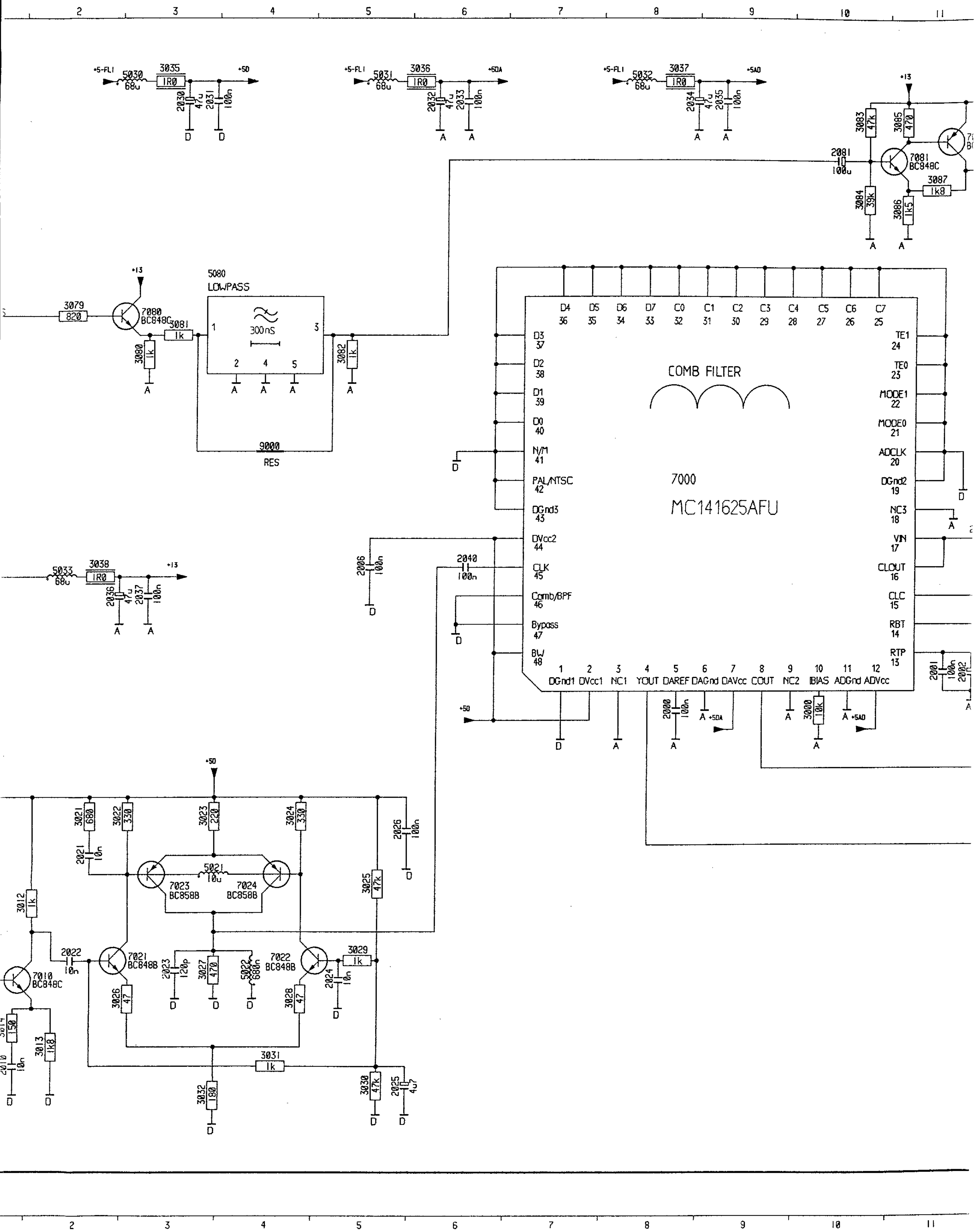

1
2
3
4
5
A
B
C
D
60781/03
KB1
5021
5022
5050
5040
5080
9000
7005
3079
2081
3038
3035
3036
3037
5030
5031
5032
5033

2000	B3	2032	B2	2082	B2	3029	D4	3048	C4	3081	B4	5021	D4	7023	C4	9000	B4
2001	C1	2033	C3	2083	C1	3030	D3	3050	C5	3082	B3	5022	D3	7024	C4		
2002	C2	2034	C1	3000	C2	3031	D4	3051	D5	3083	B3	5030	B1	7040	D4		
2003	C2	2035	C2	3001	C2	3032	D3	3052	C5	3084	A2	5031	B1	7041	C4		
2004	C1	2036	A2	3011	C3	3035	B1	3053	C5	3085	B2	5032	B1	7042	C5		
2005	C2	2037	B3	3012	C3	3036	B2	3054	C5	3086	B3	5033	B1	7050	C5		
2006	C3	2038	B2	3013	D3	3037	B1	3055	C4	3087	B2	5040	C4	7051	C5		
2010	D3	2040	B4	3014	D3	3038	C1	3056	D5	3088	C2	5050	C5	7052	C5		
2021	C4	2044	D4	3021	C3	3040	D4	3057	B5	3089	C3	5080	B3	7062	B5		
2022	D3	2045	C4	3022	C4	3041	D4	3058	C5	3090	B4	6050	B5	7080	A4		
2023	D3	2050	D5	3023	B3	3042	C4	3060	B5	3091	B4	6051	B5	7081	B2		
2024	D3	2051	B5	3024	C4	3043	C4	3061	A5	3092	B4	7000	C3	7082	B2		
2025	D2	2060	B5	3025	D2	3044	D4	3062	B5	3093	A5	7005	A3	7083	C2		
2026	C3	2070	B5	3026	C3	3045	C4	3078	D2	3094	B4	7010	D3	7090	B4		
2030	C2	2080	C2	3027	D3	3046	D4	3079	A3	4001	D5	7021	C4	7091	B5		
2031	B3	2081	A3	3028	D3	3047	C4	3080	A4	4002	D5	7022	D4	7092	A4		


60781/03
A1
5050
5040
5021
5022
2050
6051
6050
7000
5080
9000
7005
2081
2036
KB1
2025
2030
2034
2005
2004
2003
2002
2032
3038
3037
3035
3036
5031
5032
5030
5033

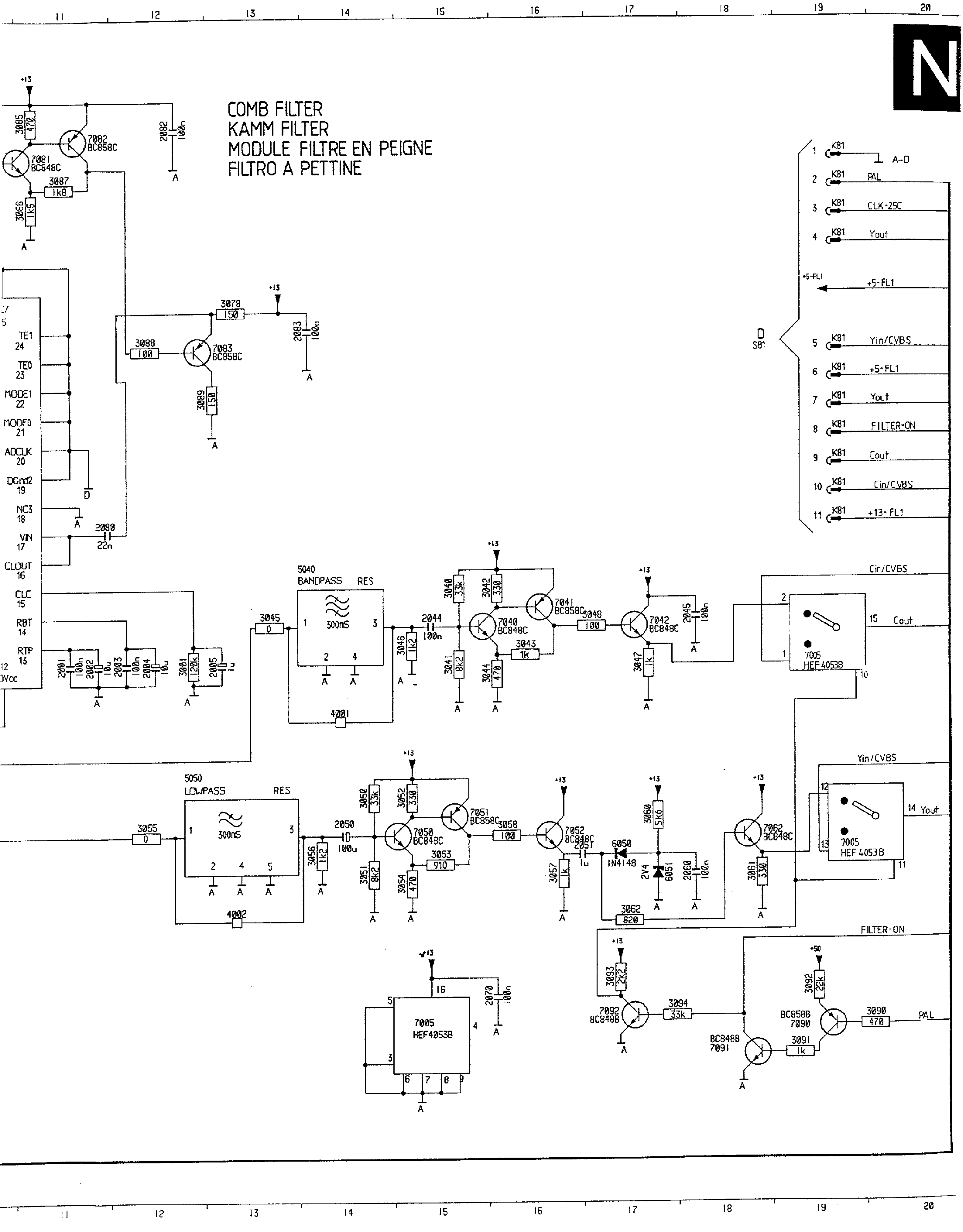

N
1
2
A
B
C
D
E
F
G
H
I
J
K
L
+5-FL1
5030
68u
+13
Yin/CVBS
3079
820
3080
+13-FL1
5033
68u
3038
1R0
2036
47u
2037
A
3021
680
3022
330
2021
10n
3011
470
3012
1k
2022
10n
CLK-2SC
7010
BC848C
3026
47
3014
150
3013
1k8
2010
10n

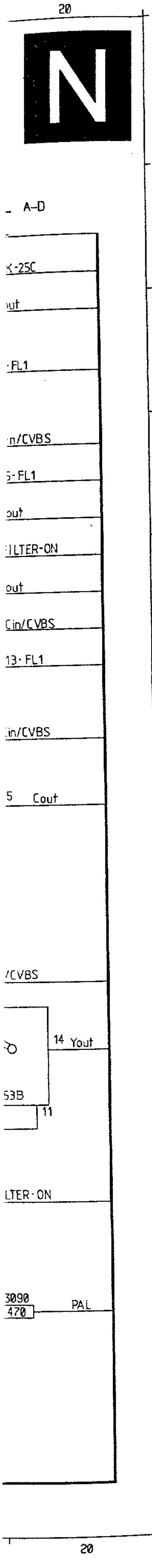
Comb filter / Kamm-Filter / Filtre en peigne


+5-FL1
5030
68u
3035
1R0
+5D
2030
47u
2031
100n
5031
3036
+5DA
2032
2033
5032
3037
+5AD
2034
2035
+13
3083
47k
3085
470
2081
100u
7081
BC848C
3087
1k8
3084
39k
3086
1k5
7080
BC848C
3079
820
3081
1k
3080
3082
5080
LOWPASS
300nS
9000
RES
COMB FILTER
7000
MC141625AFU
D4 36
D5 35
D6 34
D7 33
C0 32
C1 31
C2 30
C3 29
C4 28
C5 27
C6 26
C7 25
D3 37
D2 38
D1 39
D0 40
N/M 41
PAL/NTSC 42
DGnd3 43
DVcc2 44
CLK 45
Comb/BPF 46
Bypass 47
BW 48
TE1 24
TE0 23
MODE1 22
MODE0 21
ADCLK 20
DGnd2 19
NC3 18
VIN 17
CLOUT 16
CLC 15
RBT 14
RTP 13
1 DGnd1
2 DVcc1
3 NC1
4 YOUT
5 DAREF
6 DAGnd
7 DAVcc
8 COUT
9 NC2
10 IBIAS
11 ADGnd
12 ADVcc
2006
100n
2040
100n
2000
100n
3000
10k
2001
100n
2002
5033
68u
3038
1R0
2036
47u
2037
100n
3021
680
3022
330
3023
220
3024
330
2021
10n
2026
100n
5021
10u
7023
BC858B
7024
BC858B
3025
47k
3012
1k
2022
10n
7021
BC848B
7022
BC848B
2023
120p
3027
470
5022
680n
3029
1k
2024
10n
7010
BC848C
3026
47
3028
47
3014
150
2010
10n
3013
1k8
3031
1k
3032
180
3030
47k
2025
4u7
A
D
2
3
4
5
6
7
8
9
10
11

N

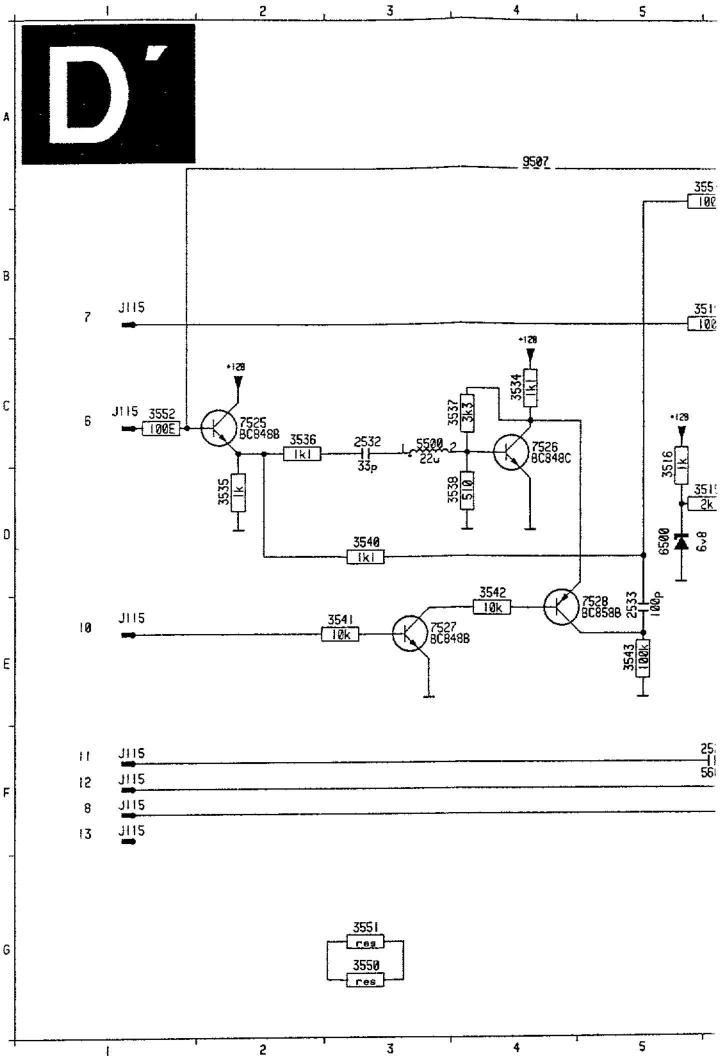
COMB FILTER
KAMM FILTER
MODULE FILTRE EN PEIGNE
FILTRO A PETTINE


11
12
13
14
15
16
17
18
19
20
+13
3085
470
7082
BC858C
7081
BC848C
3087
1k8
3086
1k5
A
2082
100n
A
3078
150
+13
2083
100n
A
3088
100
7083
BC858C
3089
150
A
C7
5
TE1
24
TE0
23
MODE1
22
MODE0
21
ADCLK
20
DGnd2
19
D
NC3
18
A
VIN
17
2080
22n
CLOUT
16
CLC
15
RBT
14
RTP
13
12
DVcc
2001
100n
2002
10u
2003
100n
2004
10u
3001
120k
2005
1u
A
A
1
K81
A-D
2
K81
PAL
3
K81
CLK-25C
4
K81
Yout
+5-FL1
+5-FL1
D
S81
5
K81
Yin/CVBS
6
K81
+5-FL1
7
K81
Yout
8
K81
FILTER-ON
9
K81
Cout
10
K81
Cin/CVBS
11
K81
+13-FL1
5040
BANDPASS
RES
300nS
1
3
2
4
3045
0
4001
2044
100n
3046
1k2
A
+13
3040
33k
3042
330
7041
BC858C
7040
BC848C
3041
8k2
3044
470
3043
1k
3048
100
+13
7042
BC848C
2045
100n
3047
1k
A
Cin/CVBS
2
15
Cout
1
7005
HEF 4053B
10
5050
LOWPASS
RES
300nS
3055
0
1
3
2
4
5
4002
2050
100u
3056
1k2
+13
3050
33k
3052
330
7051
BC858C
7050
BC848C
3051
8k2
3054
470
3053
910
3058
100
+13
7052
BC848C
2051
1u
3057
1k
6050
1N4148
+13
3060
5k6
2V4
6051
2060
100n
3062
820
+13
7062
BC848C
3061
330
Yin/CVBS
12
14
Yout
13
7005
HEF 4053B
11
FILTER-ON
+13
16
5
7005
HEF4053B
4
2070
100n
3
6
7
8
9
+13
3093
2k2
7092
BC848B
3094
33k
+50
3092
22k
BC858B
7090
3090
470
PAL
BC848B
7091
3091
1k
A

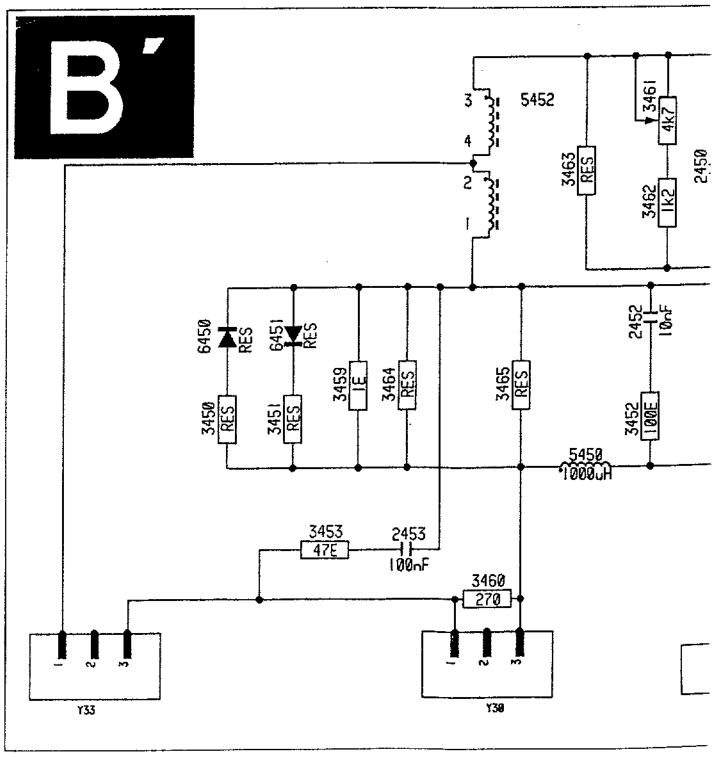

20
N
A–D
K-25C
out
-FL1
in/CVBS
5-FL1
out
ILTER-ON
out
Cin/CVBS
13-FL1
in/CVBS
5 Cout
/CVBS
14 Yout
53B
11
LTER-ON
3090
470
PAL
20
A
B
C
D
E
F
G
H
I
J
K
L

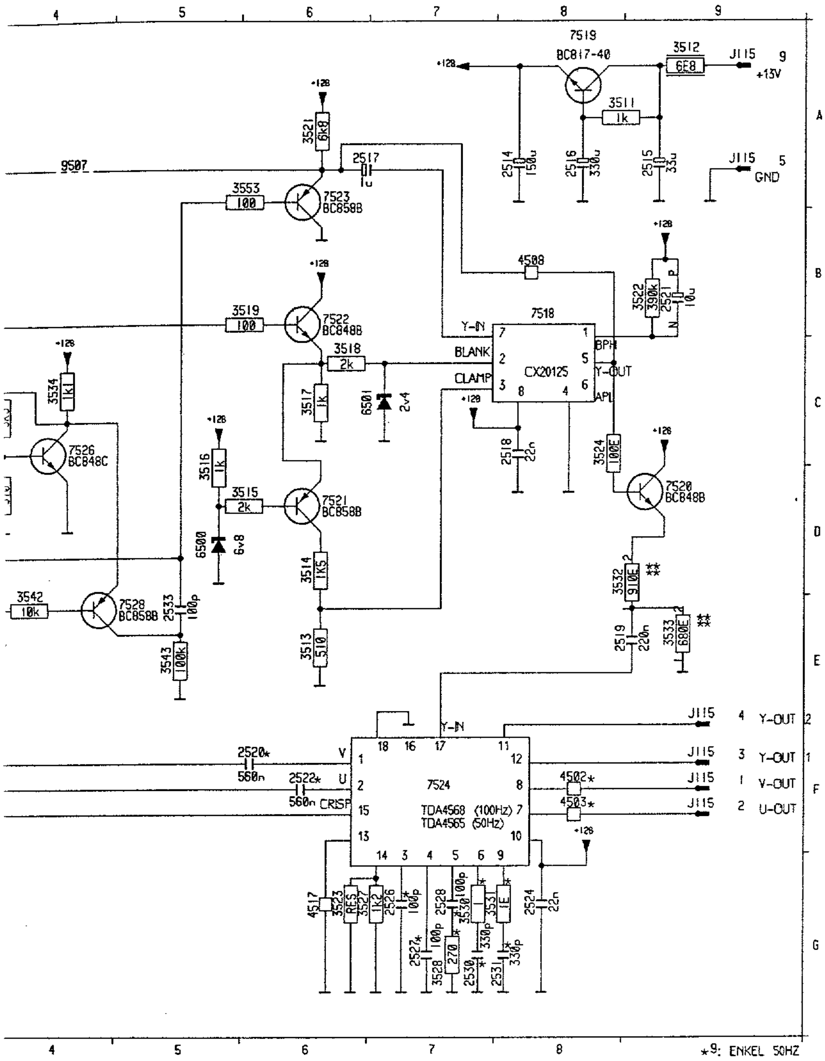
2000	G 8
2001	G11
2002	G11
2003	G12
2004	G12
2005	G13
2006	F 5
2010	K 1
2021	I 2
2022	J 2
2023	J 3
2024	J 5
2025	K 5
2026	I 5
2030	A 3
2031	A 3
2032	A 6
2033	A 6
2034	A 8
2035	A 9
2036	F 2
2037	F 3
2038	B18
2040	F 6
2044	G15
2045	G18
2050	I14
2051	I16
2060	I18
2070	K16
2080	F11
2081	B10
2082	A12
2083	D14
3000	G10
3001	G12
3011	I 1
3012	I 1
3013	K 2
3014	K 1
3021	I 2
3022	I 2
3023	I 3
3024	I 4
3025	I 5
3026	J 2
3027	J 3
3028	J 4
3029	J 5
3030	K 5
3031	K 4
3032	K 3
3035	A 3
3036	A 6
3037	A 8
3038	F 2
3040	F15
3041	G15
3042	F15
3043	G16
3044	G15
3045	G13
3046	G15
3047	G17
3048	G17
3050	H14
3051	I14
3052	H15
3053	I15
3054	I15
3055	I12
3056	I14
3057	I16
3058	I16
3060	I17
3061	I18
3062	J17
3078	C13
3079	C 2
3080	D 3
3081	C 3
3082	D 5
3083	A10
3084	B10
3085	A11
3086	B11
3087	B11
3088	D12
3089	D12
3090	K20
3091	K19
3092	J19
3093	J17
3094	K17
4001	H14
4002	J13
5021	I 3
5022	J 4
5030	A 3
5031	A 5
5032	A 8
5033	F 2
5040	F13
5050	H12
5080	C 3
6050	I17
6051	I17
7000	E 8
7005	K15
7005	G19
7005	I19
7010	J 2
7021	J 3
7022	J 4
7023	I 3
7024	I 4
7040	G16
7041	F16
7042	G17
7050	I15
7051	I15
7052	I16
7062	I18
7080	C 3
7081	B11
7082	B11
7083	D13
7090	K19
7091	K18
7092	K17
9000	E 4
K81	B19
K81	B19
K81	B19
K81	C19
K81	D19
K81	D19
K81	D19
K81	E19
K81	E19
K81	E19
K81	E19

Black stretch


D'
1
2
3
4
5
A
B
C
D
E
F
G
9507
J115
7
6
10
11
12
8
13
3552
100E
7525
BC848B
3535
1k
3536
1k1
2532
33p
5500
22u
3537
3k3
3534
1k1
3539
510
7526
BC848C
3540
1k1
3541
10k
7527
BC848B
3542
10k
7528
BC858B
2533
100p
3543
100k
3516
1k
6500
6v8
3551
res
3550
res
+12V

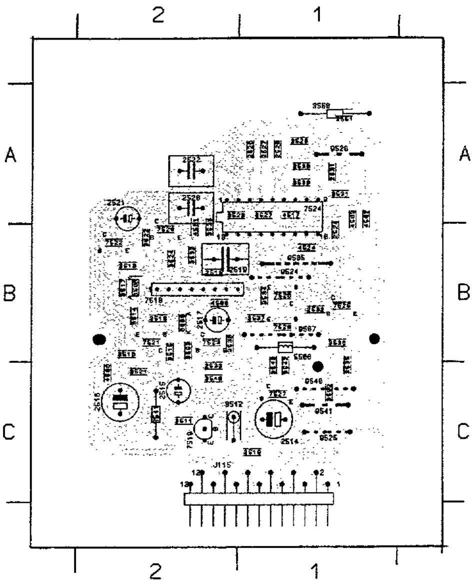
North-South (only 29")


B'
5452
3
4
2
1
3461
4k7
3463
RES
3462
1k2
2450
6450
RES
6451
RES
3450
RES
3451
RES
3459
1E
3464
RES
3465
RES
2452
10nF
3452
100E
5450
1000uH
3453
47E
2453
100nF
3460
270
Y33
Y30

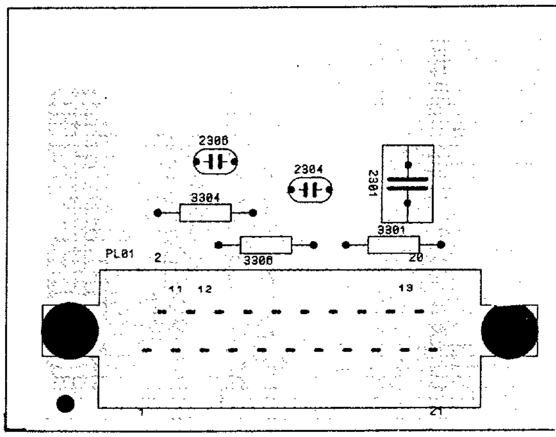

4
5
6
7
8
9
7519
BC817-40
3512
6E8
J115
+13V
+12B
3511
1k
2514
150u
2516
330u
2515
33u
J115
GND
3521
6k8
2517
1u
9507
3553
100
7523
BC858B
4508
3522
390k
2521
10u
7518
Y-IN
BLANK
CLAMP
CX20125
BPH
Y-OUT
APL
3519
100
7522
BC848B
3518
2k
3517
1k
6501
2V4
2518
22n
3524
100E
7520
BC848B
3534
1k
7526
BC848C
3516
1k
3515
2k
7521
BC858B
6500
6V8
3514
1K5
3532
910E
3542
10k
7528
BC858B
2533
100p
3513
510
2519
220n
3533
680E
3543
100k
7524
TDA4568 (100Hz)
TDA4565 (50Hz)
2520*
560n
2522*
560n
CRISP
Y-OUT
V-OUT
U-OUT
4502*
4503*
4517
3523
RES
3527
1k2
2526
100p
2528
100p
3530
2527*
100p
3528
270
2530*
330p
3531
1E
2531*
330p
2524
22n
A
B
C
D
E
F
G
*9: ENKEL 50HZ

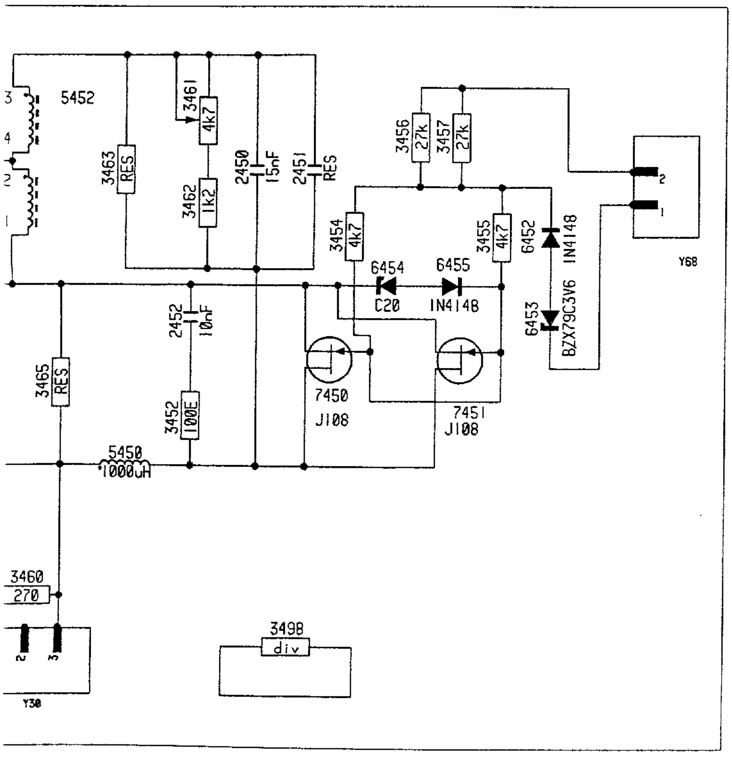
2514	A	8
2515	A	9
2516	A	8
2517	A	6
2518	C	8
2519	E	9
2520	F	6
2521	B	9
2522	F	6
2524	G	8
2526	G	7
2527	G	7
2528	G	7
2530	G	7
2531	G	8
2532	C	3
2533	E	5
3511	A	8
3512	A	9
3513	E	6
3514	D	6
3515	D	6
3516	C	5
3517	C	6
3518	C	6
3519	B	6
3521	A	6
3522	B	9
3523	G	6
3524	C	8
3527	G	7
3528	G	7
3530	G	7
3531	G	8
3532	D	8
3533	E	9
3534	C	4
3535	D	2
3536	C	2
3537	C	4
3538	D	4
3540	D	3
3541	E	3
3542	E	4
3543	E	5
3550	G	3
3551	G	3
3552	C	1
3553	A	6
4502	F	8
4503	F	8
4508	B	8
4517	G	6
5500	C	3
6500	D	5
6501	C	6
7518	B	8
7519	A	8
7520	D	9
7521	D	6
7522	B	6
7523	A	6
7524	F	7
7525	C	2
7526	C	4
7527	E	3
7528	E	5
9507	A	4
J115	F	9
J115	F	9
J115	F	9
J115	E	9
J115	A	9
J115	C	1
J115	B	1
J115	F	1
J115	A	9
J115	E	1
J115	F	1
J115	F	1
J115	F	1

Black stretch


2
1
A
B
C
J115
2

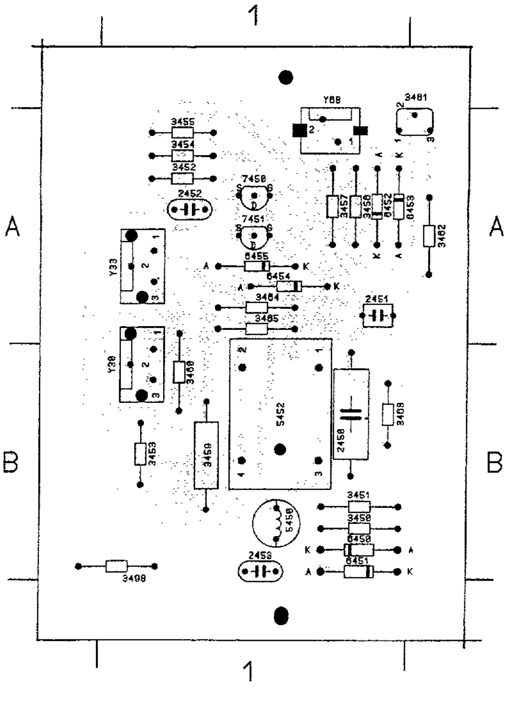
Euro AV3 Connector


2300
2304
2301
3304
3301
3300
PL01
2
11
12
13
20
1
21


5452
3463
RES
3461
4k7
3462
1k2
2450
15nF
2451
RES
3456
27k
3457
27k
3454
4k7
6454
C20
6455
IN4148
3455
4k7
6452
IN4148
6453
BZX79C3V6
Y68
2452
10nF
3465
RES
3452
100E
7450
J108
7451
J108
5450
1000uH
3460
270
3498
div
Y30

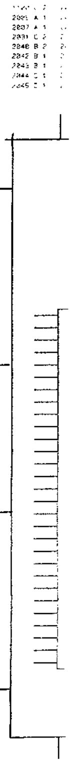
North-South (29")

2450 B 1	3451 B 1	3456 A 1	3463 B 1	5452 B 1	6454 A 1	Y33 A 1
2451 A 1	3452 A 1	3457 A 1	3464 A 1	6450 B 1	6455 A 1	Y68 A 1
2452 A 1	3453 B 1	3459 B 1	3465 A 1	6451 B 1	7450 A 1	
2453 B 1	3454 A 1	3460 A 1	3498 B 1	6452 A 1	7451 A 1	
3450 B 1	3455 A 1	3461 A 1	5450 B 1	6453 A 1	Y30 B 1	

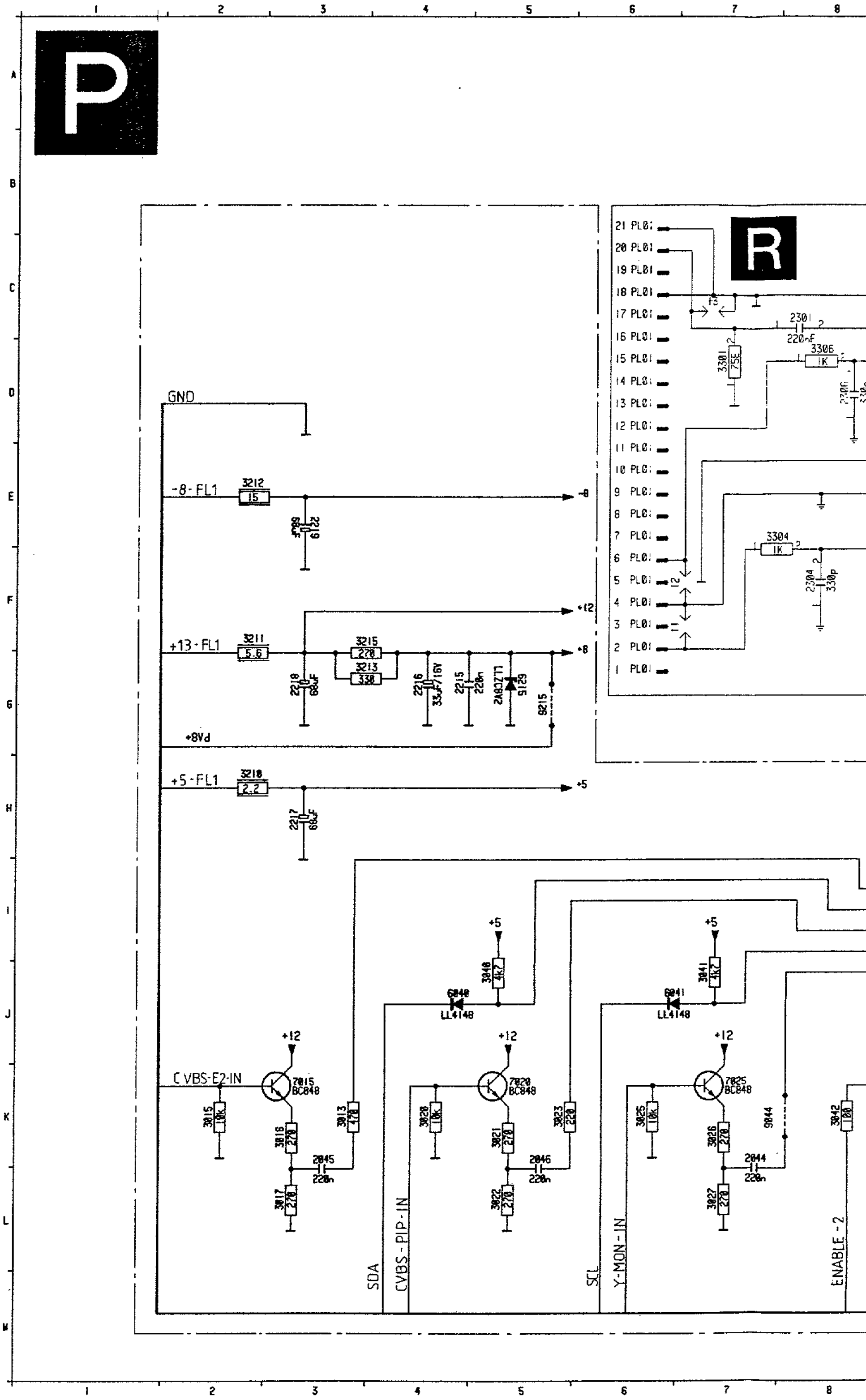

1
A
B
Y68
3461
3455
3454
3452
7450
7451
2452
Y33
3457
3456
6452
6453
3462
6455
6454
3464
3465
2451
Y30
3460
5452
2450
3459
3453
3451
3450
6450
6451
2453
5450
3498

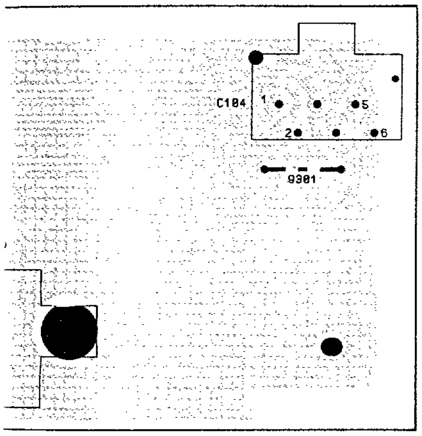
Euro

Euro



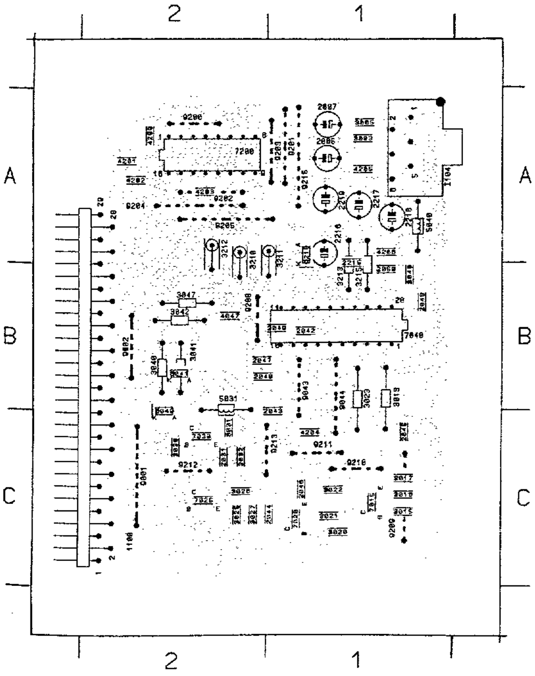
Euro AV3 Interface / Connector


P
R
GND
-8-FL1
3212
15
2212
68uF
-8
+13-FL1
3211
5.6
2219
68uF
3215
270
3213
330
2216
33uF/16V
2215
220n
2A0ZZ11
5129
9215
+12
+8
+8Vd
+5-FL1
3218
2.2
2217
68uF
+5
21 PL01
20 PL01
19 PL01
18 PL01
17 PL01
16 PL01
15 PL01
14 PL01
13 PL01
12 PL01
11 PL01
10 PL01
9 PL01
8 PL01
7 PL01
6 PL01
5 PL01
4 PL01
3 PL01
2 PL01
1 PL01
2301
220nF
3301
75E
3306
1K
3304
1K
2304
330p
+5
3040
4K7
6040
LL4148
3041
4K7
6041
LL4148
+12
CVBS-E2-IN
7015
BC848
3015
10k
3016
270
3017
270
2045
220n
3013
470
7020
BC848
3020
10k
3021
270
3022
270
2046
220n
3023
220
7025
BC848
3025
10k
3026
270
3027
270
2044
220n
9044
3042
100
SDA
CVBS-PIP-IN
SCL
Y-MON-IN
ENABLE-2
1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
L
M

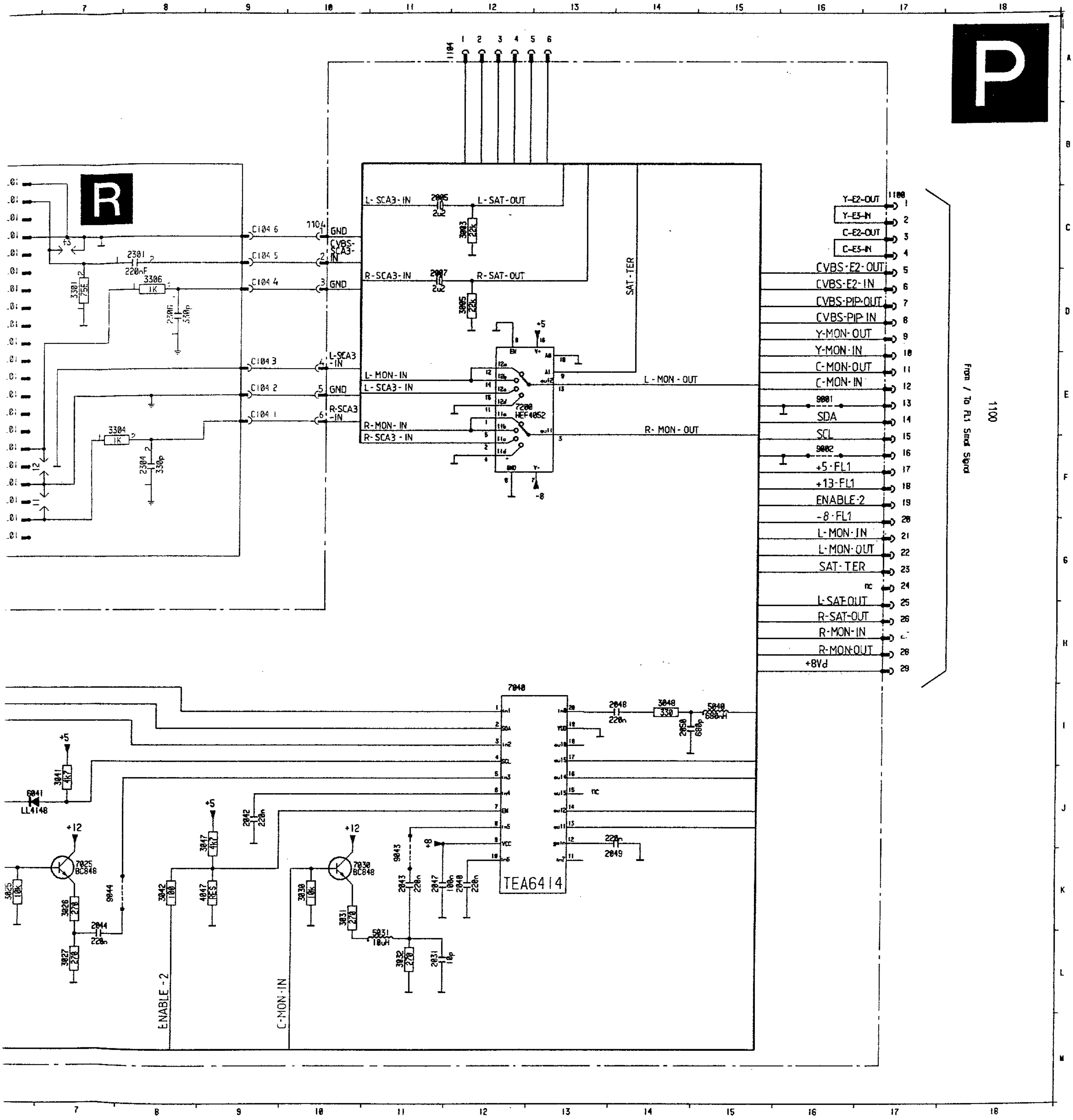

C104
1
5
2
6
9301

Euro AV3 Interface

1100	C	2
2005	A	1
2007	A	1
2031	C	2
2040	B	2
2042	B	1
2043	B	1
2044	C	1
2045	C	1
2046	C	1
2047	B	2
2048	B	1
2049	B	1
2050	B	1
2215	A	1
2216	B	1
2217	A	1
2218	A	1
2219	A	1
3003	A	1
3005	A	1
3013	C	1
3015	C	1
3016	C	1
3017	C	1
3020	C	1
3021	C	1
3022	C	1
3023	C	1
3025	C	2
3026	C	2
3027	C	2
3030	C	2
3031	C	2
3032	C	2
3040	B	2
3041	B	2
3042	B	2
3047	B	2
3048	B	1
3210	A	2
3211	A	1
3212	A	2
3213	A	1
3215	A	1
4047	B	2
4200	A	2
4201	A	2
4202	A	2
4203	A	2
4204	C	1
4205	A	1
4206	A	1
5031	B	2
5040	A	1
6040	B	2
6041	B	2
6215	A	1
7015	C	1
7020	C	1
7025	C	2
7030	C	2
7040	B	1
7200	A	2
9001	C	2
9002	B	2
9043	C	1
9044	C	1
9200	A	2
9201	A	1
9202	A	2
9203	A	1
9204	A	2
9205	A	1
9206	B	2
9209	C	1
9210	C	1
9211	C	1
9212	C	2
9213	C	1
9215	A	1
1104	A	1


2
1
A
B
C
7200
7040
1104
1100
9200
9202
9203
9205
2007
2006
2217
2218
2216
3212
3210
3211
3047
3042
3048
3041
5031
3040
2042
2047
9043
9041
3023
3019
9211
9212
9216
9001
7020
7025
7015
7030
3022
3021
3020
2

Interface / Branchement Euro AV3


P
R
1104
1 2 3 4 5 6
1100
L-SCA3-IN
2005 2u2
L-SAT-OUT
3003 22k
R-SCA3-IN
2007 2u2
R-SAT-OUT
3005 22k
SAT-TER
GND
CVBS-SCA3-IN
L-SCA3-IN
R-SCA3-IN
C104 6
C104 5
C104 4
C104 3
C104 2
C104 1
2301 220nF
3301 75E
3306 1K
2306 330p
3304 1K
2304 330p
L-MON-IN
L-SCA3-IN
R-MON-IN
R-SCA3-IN
7200 HEF4052
+5
-8
L-MON-OUT
R-MON-OUT
Y-E2-OUT
Y-E3-IN
C-E2-OUT
C-E3-IN
CVBS-E2-OUT
CVBS-E2-IN
CVBS-PIP-OUT
CVBS-PIP-IN
Y-MON-OUT
Y-MON-IN
C-MON-OUT
C-MON-IN
9001
SDA
SCL
9002
+5-FL1
+13-FL1
ENABLE-2
-8-FL1
L-MON-IN
L-MON-OUT
SAT-TER
nc
L-SAT-OUT
R-SAT-OUT
R-MON-IN
R-MON-OUT
+8Vd
From / To FL1 Small Signal
7040
TEA6414
2040 220n
3040 330
5040 680nH
2050 680p
220n 2049
nc
3041 4K7
6041 LL4148
+12
7025 BC848
3025 10k
3026 270
3027 270
2044 220n
9044
3042 100
+5
2042 220n
3047 4K7
4047 RES
+12
7030 BC848
3030 10k
3031 270
5031 10uH
3032 270
2031 10p
9043
2043 220n
2047 100n
2048 220n
+8
ENABLE-2
C-MON-IN
7 8 9 10 11 12 13 14 15 16 17 18
A B C D E F G H I J K L M

1100	C1
2005	C1
2007	D1
2031	L1
2040	K1
2042	J 9
2043	K1
2044	K 7
2045	K 3
2046	K 5
2047	K1
2048	I14
2049	J14
2050	I14
2215	G 4
2216	G 4
2217	H 3
2218	G 3
2219	E 3
3003	C12
3005	D12
3013	K 3
3015	K 2
3016	K 3
3017	L 3
3020	K 4
3021	K 5
3022	L 5
3023	K 5
3025	K 6
3026	K 7
3027	L 7
3030	K10
3031	K10
3032	L1
3040	J 5
3041	J 7
3042	K 8
3047	J 9
3048	I14
3210	H 2
3211	F 2
3212	E 2
3213	G 3
3215	F 3
4047	K 9
5031	L1
5040	I15
6040	J 4
6041	J 6
6215	G 5
7015	K 3
7020	K 5
7025	K 7
7030	K10
7040	I12
7200	E12
9001	E16
9002	F16
9043	K1
9044	K 7
9215	G 5
1104	A1

7. Electrical adjustments

Setting conditions

- Unless stated otherwise, the supply voltage used is: 220 - 240V ± 10%; 50 - 60Hz ± 5%
- Voltages and oscillograms are measured in elation to tuner earth. **Never** use the cooling plates as earth.
- Warming-up time ≈ 10 minutes
- For all measurements it is true that:
- probe Ri > 1MΩ; Ci < 10pF

1. Electrical settings on the large signal panel

1.1 +141V supply voltage

Supply the mains voltage; this must be isolated from the mains.
Connect a voltmeter over C2238.
Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.2) set the supply voltage to + 141V ±0.5V.

1.2 +5V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 8 of L02
Adjust the voltage to 5.4V using R3558

1.3 +13V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 6 of connector L02
Adjust the voltage to 14.2V using R3234.

1.4 Focusing

This is set with the focus potentiometer (top one on the Line output transformer/DAF Unit).

1.5 Dynamic 1) Astigmatic focus

This is set with the aid of the potentiometer on the bottom right of the DAF transformer. Repeat the adjustment of the Vg2 and focus.

1.6 Vg2 setting

Supply an aerial signal.
Set the contrast to maximum and the brightness and saturation to nominal.
Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.1) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth.
Now adjust the highest voltage level found with the aid of the Vg2 potentiometer (bottom left on the Line output transformer/DAF unit) to 150V ±2V.

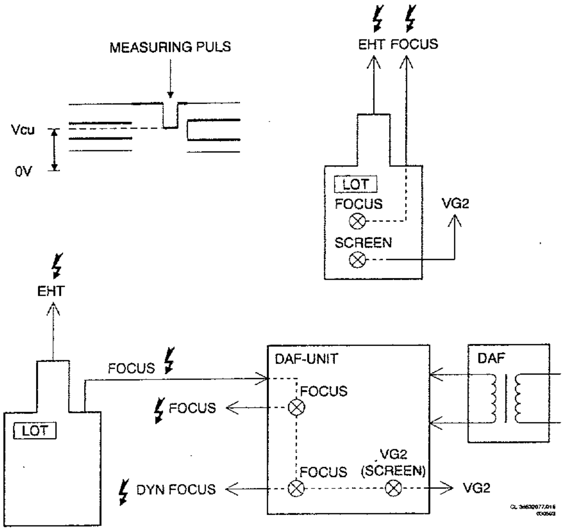


Fig. 7.1

1.7 Horizontal synchronisation

Connect point 5-IC7400 to point 9-IC7400.
Supply an aerial signal and set the receiver.
Adjust potentiometer R3406 until the picture is straight.
Break the through connection.

1.8 Horizontal centring

Feed in a test pattern that makes the horizontal linearity visible (e.g. a symmetrical cross pattern or a test circle). Adjust the DC offset current through the horizontal deflection coil using R3513 so that the horizontal linearity is optimal (the distance between the two vertical lines should be equal on both the left and right hand sides of the picture). It is also possible to use a ruler for this purpose. The picture can then be centred using R3415.

1.9 Picture width

Set using potentiometer R3607.

1.10 Vertical centring

Set using potentiometer R3467.

1.11 Picture height

Set using potentiometer R3410.

1.12 Picture height

Movie expand on: set using potentiometer R3422.
Movie expand off: set using potentiometer R3410.

1.13 East/West correction

Set using potentiometer R3602.

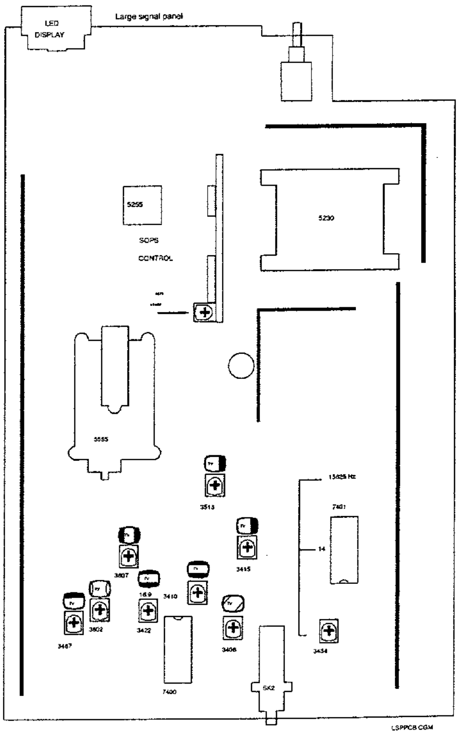


Fig. 7.2

2. Electrical settings on the small signal panel

2.1 Stereo audio channel separation

Connect a signal generator with a 2 carrier stereo signal ("stereo" mode).
Select 1kHz for the right-hand channel and switch off the sound for the left-hand channel.
Connect an oscilloscope to pin 3 of Euroconnector EXT1
Using R3602 on the small signal panel, set the amplitude of the signal to minimum amplitude.

2.2 4.43 MHz chroma suppression circuit

Supply a colour bar signal. Connect an oscilloscope to point 17 of IC7324 and set L5305 to minimum amplitude of the chrominance signal.

2.3 Electrical settings IC7365 (TDA4650)

2.3.1 Chroma bandpassfilter

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7365 to pin 13-IC7365 (+12V). Connect an oscilloscope to pin 15-IC7365.
Set L5345 to maximum amplitude.
Remove the interconnection.

2.3.2 4.50 MHz NTSC sound suppression

Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV$_{rms}$.
Connect point 26-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.3 6.50 MHz SECAM DK sound suppression

Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV$_{rms}$.
Connect point 28-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.4 Chroma 8,87 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set C2380 so that the colour on the screen has practically stopped. Remove the interconnection.

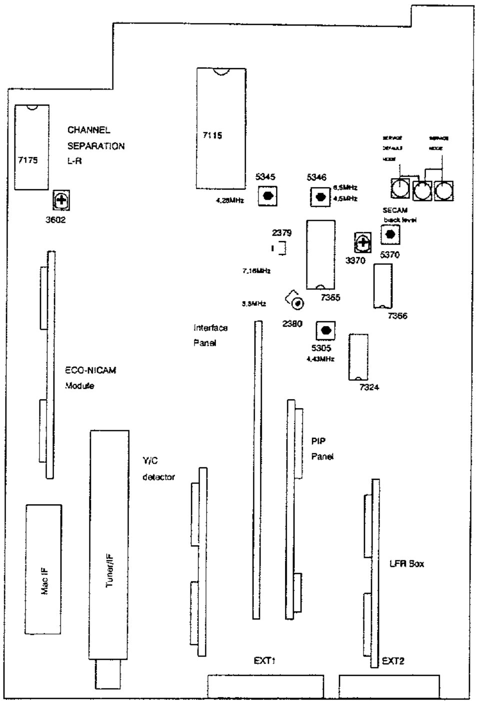
2.3.5 Chroma 7,16 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set R2379 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.6 SECAM demodulators

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 3-IC7365. Set L5370 to minimum amplitude.
Connect the oscilloscope to pin 1-IC7365. Set R3370 to minimum amplitude.

SMALL SIGNAL PANEL


CHANNEL
SEPARATION
L-R
7175
3602
7115
5345
4.28MHz
5346
6.5MHz
4.5MHz
SERVICE DEFAULT MODE
SERVICE MODE
SECAM
back level
2379
7.16MHz
3370
5370
7365
3.5MHz
2380
7366
Interface
Panel
5305
4.43MHz
7324
ECO-NICAM
Module
PIP
Panel
Y/C
detector
Mac IF
Tuner/IF
LFR Box
EXT1
EXT2

SSPPAN.CGM

Fig. 7.3

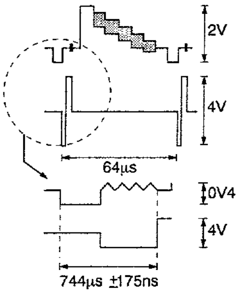
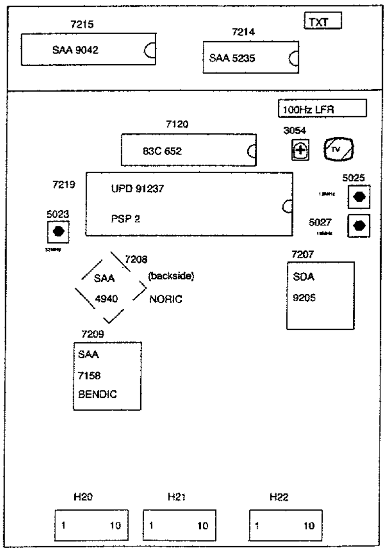

2V
4V
64µs
0V4
4V
744µs ±175ns
CL26532128/025
070892

Fig. 7.4


7215
SAA 9042
7214
SAA 5235
TXT
100Hz LFR
7120
83C 652
3054
TV
7219
UPD 91237
PSP 2
5023
5025
5027
7208
SAA
4940
(backside)
NORIC
7207
SDA
9205
7209
SAA
7158
BENDIC
H20
H21
H22
1
10
1
10
1
10

LRFPAN.CGM

Fig. 7.5

Electrical adjustments

3. Electrical adjustments on the LFR box

3.1 Synchronisation

Connect point 5 of IC7216 to earth. Adjust R3054 until the picture is straight.
Remove the short circuit.

3.2 16MHz oscillator

Apply a PAL/SECAM signal. Measure the signals at point 1 of IC7219 and at point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5027 so that the positive-going flank of the signal at point 1 of IC7219 comes 7.62 µsec after the negative-going flank of the sync pulse in the video signal (point 5 of IC7216).

3.3 32MHz oscillator

Force the STABLE OSD command to the microprocessor, by disconnecting the set from a possible antenna inputsignal. Measure the frequency at point 41 of IC7208. Using L5023 set the frequency to 32 MHz ±50 KHz.

3.4 12MHz oscillator

Switch on compress.
Measure the signals on point 1 of IC7219 and on point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5025 so that the rising flank of the signal on point 1 of IC7219 comes 7.62 µsec after the negative flank of the sync pulse in the video signal (point 5 of IC7216).

4. Electrical settings on the ECO-NICAM decoder panel

4.1 Neutral frequency adjustment

Connect a frequency counter via a probe (Ci ≤15pF) to pin 19 of IC7001 (SAA 7280) and pin 15 (GND).
Adjust C2015 in such a manner that the clock frequency is set at 728.025 kHz. (±5Hz)

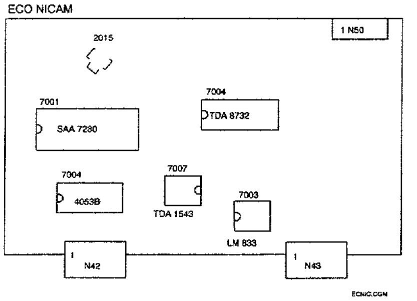


Fig. 7.6

5. Y/C detector adjustment

5.1 PAL/SECAM

Inject a chroma signal of 4.418 MHz/200mV on pin 15 of EXT2 SCART (PL05).
Connect an oscilloscope to the collector of T7266 (T7).
Using L5201 adjust the 4.418 MHz signal to maximum amplitude.

5.2 NTSC

As PAL/SECAM but with a signal of 3.582 MHz/200mV. Adjust with L5200.

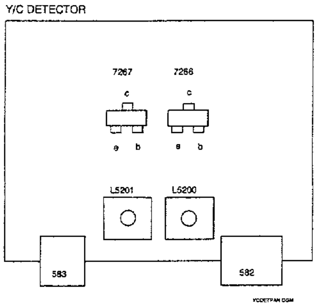


Fig. 7.7

6. Electrical settings on the PIP panel

Setting conditions

Before carrying out each setting, it should be ensured that a P.I.P. picture with colour bar is visible on the screen and the unit should have reached its operating temperature
(after ≈20 min.).

6.1 Horizontal synchronisation

Supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125.
Connect pin 5-IC7755 to earth.
Measure the frequency on pin 17-IC7755 and set this to 15,625 Hz ±25 Hz with R3239.
Remove the short circuits.

6.2 AGC

If the picture from a strong local transmitter is distorted, adjust 3160 until the picture is not distorted.

6.3 Setting for PIP modules with TDA4554

6.3.1 Chroma bandpass filter

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125.
Connect an oscilloscope to pin 15-IC7125.
Set L5118 to maximum amplitude.
Remove the interconnection.

6.3.2 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth. Set C2202 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.3 NTSC chroma auxiliary oscillator

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set C2212 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.4 The delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

Electrical adjustments

6.3.5 *SECAM identification*

Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Adjust L5190 to maximum DC level.
Remove the interconnection.

6.3.6 *SECAM demodulators*

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using L5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set L5170, but now measure at pin 3-IC7125.
Remove the interconnection.

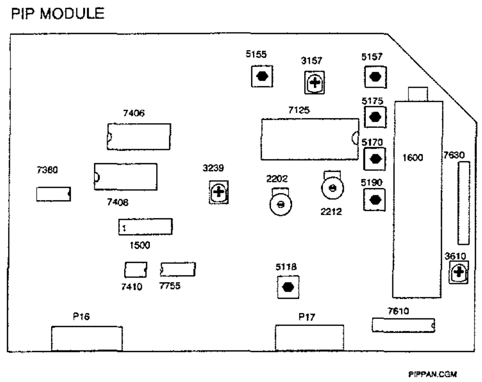
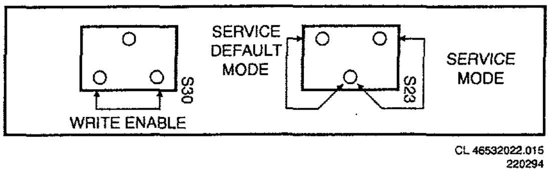


Fig. 7.8

7. Alignments in the Service Menu

The FL sets are equipped with EAROM protection. The EAROM protection will only work if pin 1 of IC7137 is high. If this point is made low by the pins of S30 on the SSP, the protection is switched off and the protected area can once more be written to. During adjustment in the service menu these pins must therefore remain connected together continuously.



7.1 Switch in the Service Menu by momentarily connecting together pins 2S323 and 1S323 on the small signal panel (diagram H). The Service Menu will then appear on the screen. The procedure is as follows:

- *Select the required alignment with the* coloured keys A to E.
- Change the values set using the "Menu +/-" key.
- Store the values set in the EAROM and leave the Service Menu by selecting STORE.

● **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**

7.2 White Drive Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a white picture. (A black picture (e.g. VCR1) set at maximum brightness is also suitable).
Switch the Service Menu in.
Select the required white drive alignment by adjusting the colours red and blue in relation to green (green is the reference colour).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 44.
The factory setting for blue is then approx. 44.
The factory setting for red is then approx. 21.

7.3 Cut-off Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a black picture (e.g. VCR1).
Switch the service menu in.
Set the brightness level so that the picture just (but clearly) illuminates.
Using the Cut-off adjustments align the colour temperatures in such a manner that at minimum illumination of the picture they are the same as the colour temperatures at maximum brightness.
(At minimum picture illumination it is possible that one colour may dominate. This is however normal and does not have to be (fully) compensated with the cut-off alignment).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 28.
The factory setting for blue is then approx. 33.
The factory setting for red is then approx. 25.

7.4 Option Alignment

The microprocessor communicates with a great number of components in the set. For correct communication the microprocessor has to know what IC's and modules are present in the set. This is done using option codes. An incorrectly set option code will give a communication problem and an accompanying error code. Every function has been allocated a value. The sum of 8 values forms an option code. This number can vary from 0 to 255. The option code tables are given at the end of this paragraph.

For

Opt
Fun
Fro
PIP
NT
NIC
2nc

Opt

Op
Fun
10C
10C
Cor

Opt

Opt
Fur
16:

Opt

Opt
Fun
50H
FL2
DA
Mo
Pict

Opt

Opt
Fur
Thi
SC

Opt

/CR1) set

djusting
green is

te" has a
ish tint).
f 44.

t (but

r
m
s the

that one
and does
t-off

te" has a
ish tint).
f 28.

at number
ication
d modules
on codes.

g error
ue. The
mber can
e given at

For example, a set has:

Option code 1

Function	*Value*
Front end FQ916/ME/IF	2
PIP module	8
NTSC-M	16
NICAM module	64
2nd front end on PIP module	128 +

Option code 1 is now:	**218**

Option code 2

Function	*Value*
100 Hz Digital Scan	4
100 Hz Digital Scan	64
Comb Filter	128 +

Option code 2 is now:	**196**

Option code 3

Function	*Value*
16:9 PTV	64 +

Option code 3 is now:	**64**

Option code 4:

Function	*Value*
50Hz-PIP	2
FL2/4 model	4
DAF	8
Mozaik screen on	32
Picture rotation	128 +

Option code 4 is now:	**174**

Option code 5

Function	*Value*
Third SCART (Euro AV3)	1
SCAVEM	2 +

Option code 5 is now:	**3**

Optioncode 1

Nbr.	**Function**
0	**Front end = FQ816 / FQ916** A reception of PAL BG or PAL BG and SECAM BG is now possible
1	**Front end = FQ844 / FQ944** Only reception of the UHF band is now possible
2	**Front end = FQ816/ME/IF / FQ916/ME/IF** Reception of SECAM L but not of SECAM L' is now possible (reception of NTSC-M is now usually also possible).
4	**Front end =FQ916/MF/IF** Reception of both SECAM L and SECAM L' is now possible (NTSC M reception is generally possible now via the Euroconnector).
8	**PIP module present** This makes it possible to show PIP (Picture in Picture) displays.
16	**NTSC-M reception possible** This is normally always in combination with front end FQ816/ME/IF or FQ816/MF/IF or FQ916/ME/IF or FQ916/MF/IF
32	**SECAM DK module fitted** In this case transmissions using the SECAM DK system can also be received.
64	**NICAM module fitted** In this case the digital sound with NICAM transmission can be received.
128	**Second front end for PIP fitted** .If this second front end is fitted a second transmitter can be displayed in the PIP picture. The PIP function (number 8) still applies.

Optioncode 2

Nbr.	**Function**
1	**Not in use**
2	**Not in use**
4	**100Hz** 0 for 50Hz or 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 64 further.
8-32	**Not in use**
64	**100Hz** 0 for 50Hz 1 for 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 4 further.
128	**Comb-filter** Select this bit for sets with a comb-filter with IC7000 = MC141625 on the comb-filter module (number 16 of option code 4 should now be zero).

Electrical adjustments

Optioncode 3	
Nbr.	**Function**
1-32	**Not in use (SAT)**
64	**16:9 present**
128	**"Videocolor 36" Picture tube**

Optioncode 4	
Nbr.	**Function**
1	**Teletext Peaking Filter on/off for LFR box (Scandinavia)** In Scandinavia this number must be selected .
2	**50Hz-PIP in a 100Hz set** Applies to FLx.x7. Applies to Digital Scan sets (FLx.x4/FLx.x6) with the Multi-PIP possibility. (This option is 0 for the FL1.14 36" (no Multi-PIP))
4	**FL2/4 model** (see chapter 4 also)
8	**16:9 picture tube with DAF (Dynamic Astigmatic Focus)** Recognisable by the potentiometers for 'Focus' and 'VG2 (SCREEN)'; these are located on the DAF unit instead of on the high voltage transformer (LOT).
16	**Not in use**
32	**Mozaik screen on/off**
64	**Not in use**
128	**Picture rotation possible (frame rotation) (16:9)**

Optioncode 5	
Nbr.	**Function**
1	**Third SCART present**
2	**SCAVEM switchable present**
4	**Not in use**
8	**SCAVEM non switchable present**
16	**Auto TXT install enable**

8. Repair tips

1. The Service Default Mode

The FL is equipped with a service default mode. The service default mode is a fixed, definite state to which the set can be switched.

1.1 Definition state

The definition of the fixed state in the service default mode is as follows:

- all sound and picture controls are in the central position (exception volume which is turned down)
- tuned to 475.25 MHz
- system:
  * PAL/SECAM BG for Multi Europe
  * PAL I for UK
  * SECAM L for Multi French

1.2 Switch on and off

The service default mode is switched on by shorting pins 2S323 and 3S323 on the small signal panel.

The service default mode can only be switched off by switching the set to stand-by. If the set is switched off and then on again using the mains switch or the mains plug, the service default mode will remain on.

If the set switches to stand-by immediately after switching-on, the set cannot be operated and also cannot be switched to the service default mode. The child-proof lock has already been activated.
To deactivate the child-proof lock the following series of commands has to be given using the remote control (see also Section 9):
<MENU>-<BLUE>-<RED>-<MENU+>-
<MENU OFF>

1.3 Fault signals

To indicate that the set is in the service default mode, the following is displayed on the screen:

SERVICE 00 00 05 06 05

The five numbers after the word "service" stand for the last five fault signals noted by the operator(s). The number on the extreme right represents the last fault signal, that on the extreme left the last fault signal but 4. Since this enables fault reports to be looked at afterward, it means that intermittent faults can be traced.
When the set leaves the service default mode, the fault-report memory is cleared.

1.4 Operation

During the service default mode the set will accept all operating commands. When, however, the set is switched off and on, it will return to the state as defined above.

2. Error messages

● **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**

In both FL1 and FL2/4 models the I^2C error messages are indicated by a combination of flashing LED's. In FL1 7 LED's on the front of the set are used. In FL2/4 only 2 LED's have been fitted to the front of the set: 'on' and 'stand-by'; for service purposes the 7 LED's have been fitted inside the set in an SMD version. These are located on the solder side of the panel with buttons for local control. The 2 LED's on the front of the set are connected in parallel with the corresponding service LED's.

Figure 8.1 illustrates the situation for FL1 and FL2/4.
A table of error messages is provided at the end of this chapter.

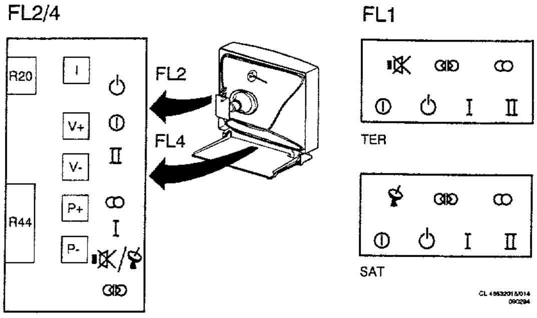


Fig. 8.1

3. Replacement of EEPROM IC7137

If, during a repair, the EEPROM has to be replaced, the microprocessor will detect that the EEPROM is empty. A fault signal (No. 21) will then be displayed.
If the service mode is now activated
(see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance and the other linear settings. These values, however, must all be checked and, if necessary, re-adjusted.
All options have also to be set, the programs installed and the personal preference set.

4. Extension prints

To simplify the measurements ON the various modules extension prints are available for the modules fitted with BTB connectors. Modules can be placed in these connectors so that they stick out above the other prints when the chassis is in the service position.
The code numbers for the extension prints are:

5-fold	4822 395 30261
6-fold	4822 395 30259
8-fold	4822 214 31402
9-fold	4822 395 30258
10-fold	4822 395 30257

5. Removing the PIP module

The PIP module can be simply removed, leaving the set functioning normally (The LED display does however indicate an error condition). Following the removal of the PIP module the signal path is broken. The signal path can be restored by placing the 5-core flat cable with connector S56 in connector foot S16 (see diagram D). The error message can be removed through the application of the option codes (see chapter 7).

6. Extension cables

Extension cables are available to lead the large signal and small signal panel signals (LSP and SSP) separately out of the set. These are made up as follows:

4822 320 20209	Set of 6 cables for LSP and SSP connections.

See chapter 4 also.

7. Central repair

For panels and modules which are difficult to repair there remains a possibility for central repair. Following receipt of a defective module a repaired and tested module is issued.
In order to guarantee the quality of the central repair service a certain amount of information regarding the defective panel is required. This information should be submitted together with the defective panel. This concerns the following information:

1. Clear description of the fault
2. Indication of intermittent or continuous fault
3. Type/version number of the set
4. AG-production code and week/year number
5. Serial number

The defective modules should be complete and free of mechanical damage.
These facilities are offered for the modules below:

LFR box [L]+[M]	4822 212 31233	FL2.2X
LFR box [L]+[M]	4822 212 31313	FL2.24/58
LFR box [L]+[M]	4822 212 31314	FL2.24/62
100Hz box [L']	4822 212 31392	FL4.27

8 Diagnosis and protection

8.1 Hardware and software protection

In case any serious fault occurs in the set, one of the protection circuits will activate. A protection circuit switches of the main power supply (SOPS) via the stand-by input (STBY) of the SOPS control panel. This input is located on pin 1 of connector pin L40 with test point number TP56, and is illustrated on diagram A.
As the microprocessor is fed by a separate stand-by power supply (SOPS), the processor and the LED's will continue to operate, even when the main power supply is switched off.

A number of protection circuits can switch off the power supply independently and immediately (hardware protection). In two protection circuits the microprocessor itself switches off the power supply (software protection).

All protection circuits come together on the stand-by input (TP56 of the main power supply. A diagnosis determines which protection circuit is active.

8.2 Protection test point TP56 [diagram A]

The following voltages may be present on the stand-by input of the SOPS control panel (TP56): [see diagram A]

1	Approx. 17V	during operation;
2	0.5 - 1V	during hardware protection; (this value is maintained by a thyristor circuit formed by TS7380/TS7381);
3	0.5V	during stand-by and software protection.

8.3 Hardware protection:

1 Power supply voltage +13 from the SOPS too high (+V) [diagram A].
This protection circuit activates if the voltage in +13V circuit of the SOPS becomes too high during operation.

2 SOPS and/or +11/-11V for the audio output amplifier defective (SOUND-PROT).
[diagram G]
The protection circuit activates when the +11V and -11V voltages are no longer in balance, or when both voltages are absent. This protection circuit also operates when the SOPS does not function or is short-circuited.
This protection circuit is fed by the start-up voltage 'Vstart' from the SOPS.

3 Beam current too high (I-BEAM) [diagram B]
When the beam current becomes too high this protection circuit switches off the power supply. Before this protection circuit can activate the picture will first illuminate brightly. This fault occurs for example on the absence of the +200V power supply voltage on the picture tube panel.

4 Deviating LOT behaviour (EHT, LOT-PROT) [diagram B].
This protection circuit becomes active when a 'unusual' voltage forms appear on the LOT outputs (5555). This may indicate defective or loose components in the line deflection circuit. (LOT, switching transistors, capacitors).

5 East/west output stage defective [diagram B].
This protection circuit activates when the current through the east/west switching transistor T7610 exceeds a specific value. In this case transistor T7542 will conduct for a brief period.
(the base-emitter voltage Ube from T7542 is then momentary greater than 0.6V).

6 Vertical deflection end stage (IC7450) defective [diagram B].
The frame output stage IC7450 has a protection output (pin 7, TP62). This output becomes momentarily high on any defect in this IC or during the absence of the power supply voltage.
During normal operation there are short pulses on this output.
The frame output stage is fed by a winding on the LOT (5555) (+28V or +32V).
During diagnosis a check should be made whether the +28/+32V power supply voltage continually drops before the protection circuit output is activated. If this is the case then one of the other protection circuits is responsible for switching out the power supply.

By measuring the timing pulses between the protection output (pin 7) and the power supply voltage (pin 6) in relation to earth (pin 2 or 4) it can be determined whether the protection is originating from the frame output stage. The protection circuit overview at the end of this chapter provides a schematic overview of the measurements.

8.4 Software protection

8.4.1 *Error message 99*

Error message 99 is displayed when software protection is generated by the microprocessor. Software protection becomes active when the +13V and or +5V power supply voltage is not present on the small signal panel (SSP). Due to the absence of the power supply the connected components are unable to provide an I^2C signal to the microprocessor. The processor then sets the SOPS in stand-by. If this is the case error message 99 is then displayed.
Software protection can be switched out by activating the 'Service Default Mode' (see §1).

If the +13V or +5V are absent as a result of hardware protection switching out the power supply, error message 99 will be displayed by the LED's following a short period, as the microprocessor is no longer receiving any signal from the connected IC's. The processor now bridges the hardware protection via the STBY signal. Each hardware protection will therefore eventually result in software protection, resulting in error message 99 being displayed.

During hardware protection the microprocessor makes repeated attempts to communicate with the connected I^2C-IC's before making a decision for software protection.
During this period (up to approximately 5 minutes) the set will not react to any operational commands. Because none of the I^2C-IC's responds in this period various error messages will be displayed by the LED's. If error message 99 does not eventually appear then the protection circuits are not operational and the cause of the fault can be sought elsewhere.

When the microprocessor generates a STBY signal for implementing software protection TP56 will be made lower than 0.5V by the STBY signal, through which any eventual hardware protection on TP56 will be bridged. In order to determine whether hardware protection is active via TP56 the voltage on TP56 should be measured with the set in the 'Service Default Mode' or measured before error message 99 appears on the LED display.

8.4.2 *Software protection*

7 +5V on the small signal panel (SSP) [diagram B and C]
To test whether the +5V power supply voltage, from the LOT winding (5555) [diagram B], is reaching the small signal panel without short-circuiting, the front-end (1160 [diagram C]) must provide a signal to the microprocessor via IC within a specific time.
If this signal does not arrive, the microprocessor switches the main power supply into stand-by, and the LED's will indicate error message 99 once more. To test whether the front-end is defective the service default mode will have to be selected. If the power supply voltages on the front-end are correct and a front-end error message persists (error 11), then the front-end is defective.

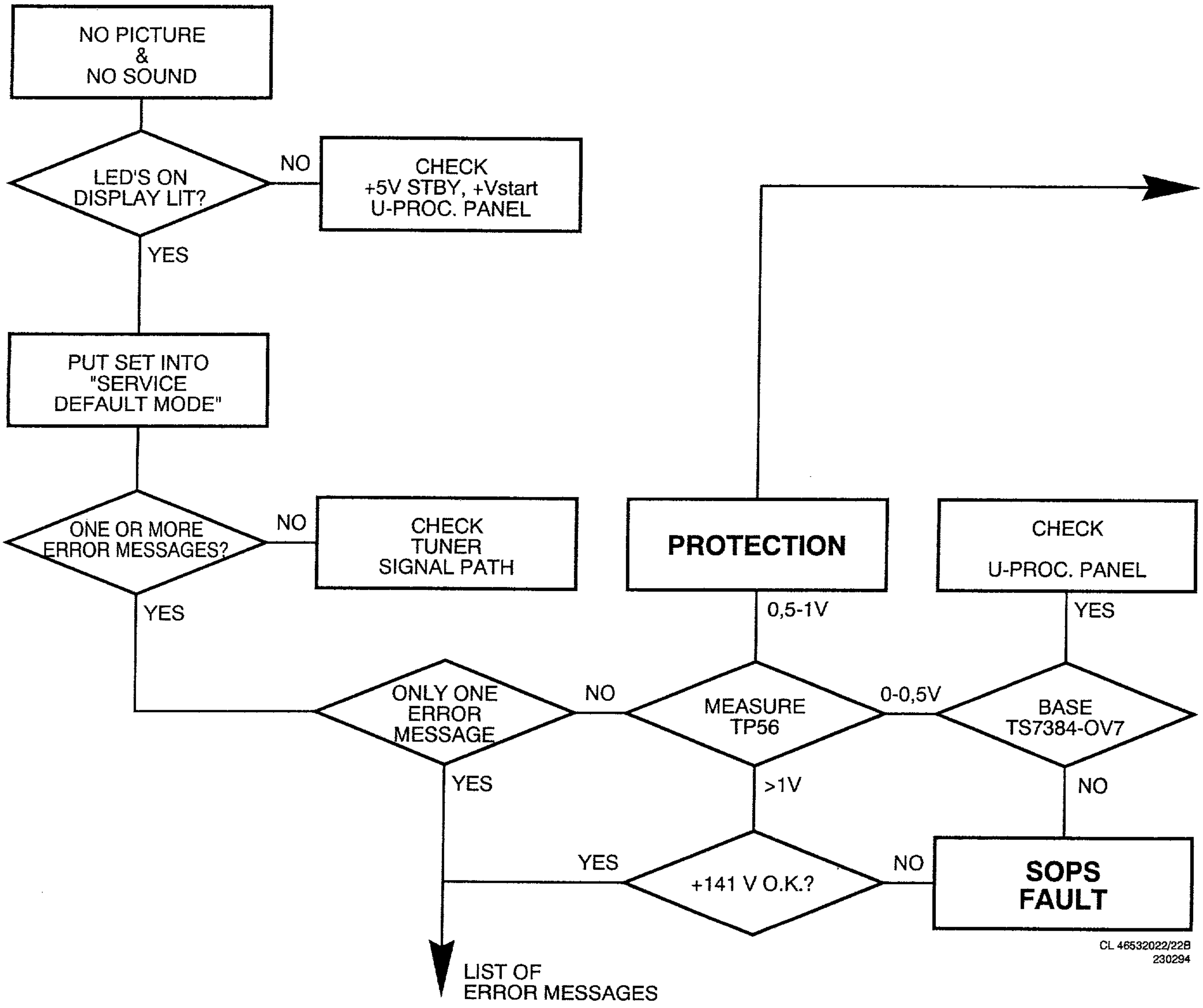
8 +13V on the small signal panel (SSP) [diagrams A, D and F]).
To test whether the +13V power supply voltage from the main power supply (SOPS) [diagram A] is reaching the small signal panel without short-circuiting, IC7430 (TDA4680 video processor, [diagram D]) or IC7600 (TDA8417, stereo decoder, [diagram F]) or IC7680 (TDA8425, audio processor [diagram F]) must provide a signal via I^2C to the microprocessor within a specific time. If none of these three IC's provides any signal the microprocessor switches the main power supply into stand-by. The LED's indicate error code 99.

9 SAT box power supply defective (only for set with a SAT box (D2-MAC)).
When the SAT box microprocessor does not send a signal to the main processor in the set, the main processor, following error message 51 (SAT box processor), will switch the software protection in. The LED's now indicate error code 99.
To test whether the SAT box processor is defective the service default mode must be selected. If only the error message from the SAT box is now indicated (error 51), and all power supply voltages on the processor are correct, then the SAT box processor is defective.
The operation of the SAT box power supply [diagram O] can be checked as followed:
Disconnect the SAT box and chassis from one another by disconnecting the band cable between the interface panel [diagram P] and the SAT box [diagram O].
When after a short time the set can be started up from stand-by the SAT box will have an incorrect power supply and error message 99 does not appear.

8.5 Measurements in the protection circuits.

All hardware circuits are illustrated in figure 8.2.
The oscillograms indicate the voltages on the relevant test points immediately after the set is switched on.
In this case the signals illustrated are for during:

- normal operation
- protection caused by this circuit (PROT);
- protection caused by another protection circuit (N-PROT).


NO PICTURE
&
NO SOUND
LED'S ON DISPLAY LIT?
NO
CHECK +5V STBY, +Vstart U-PROC. PANEL
YES
PUT SET INTO "SERVICE DEFAULT MODE"
ONE OR MORE ERROR MESSAGES?
NO
CHECK TUNER SIGNAL PATH
YES
ONLY ONE ERROR MESSAGE
NO
YES
PROTECTION
0,5-1V
MEASURE TP56
0-0,5V
>1V
CHECK
U-PROC. PANEL
YES
BASE TS7384-OV7
NO
SOPS FAULT
+141 V O.K.?
YES
NO
LIST OF ERROR MESSAGES
CL 46532022/22B
230294

Protection

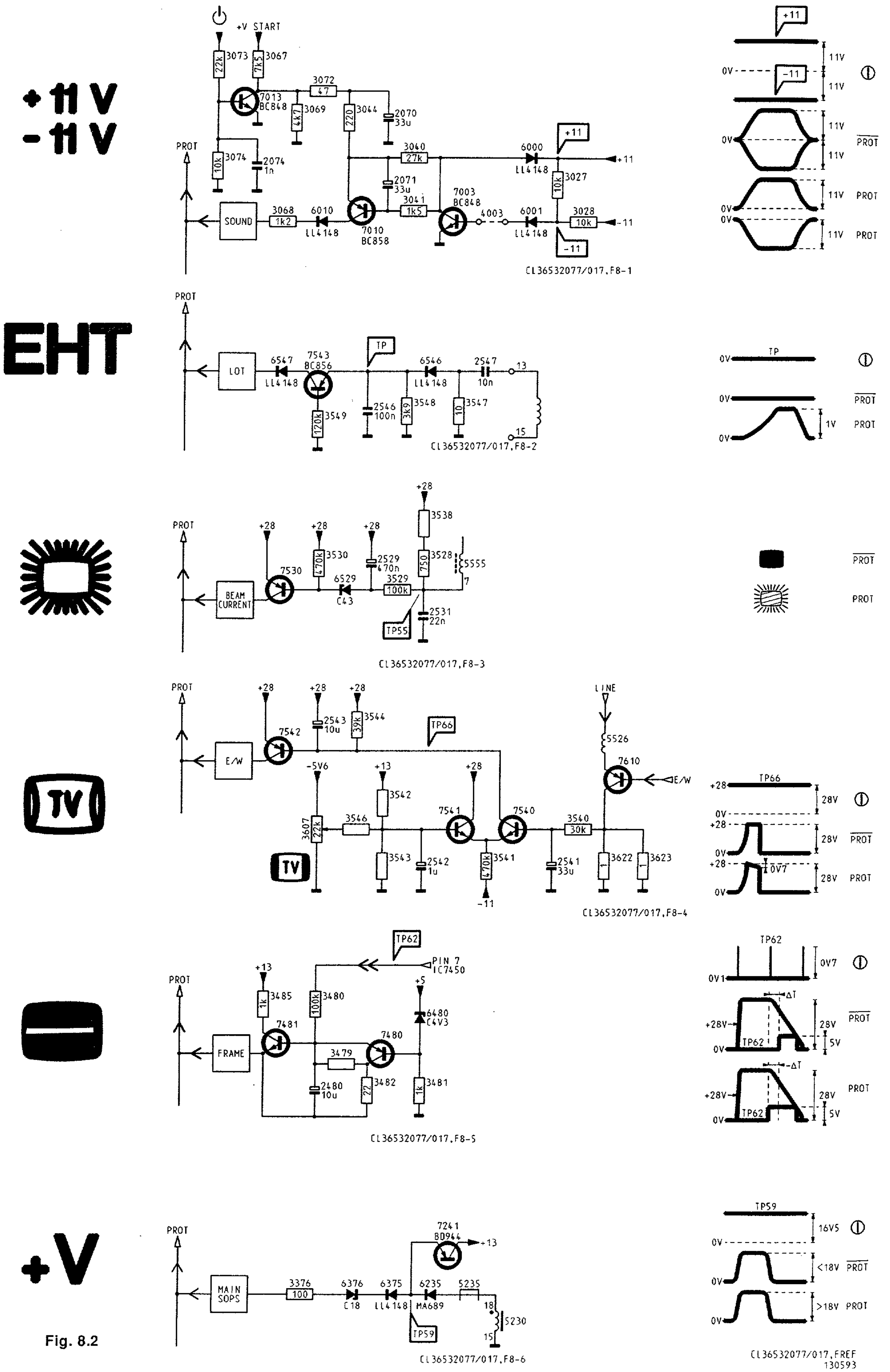

+11 V
-11 V
+V START
3073 22k
3067 7k5
3072 47
7013 BC848
3069 4k7
3044 220
2070 33u
PROT
3074 10k
2074 1n
3040 27k
6000 LL4148
+11
3027 10k
2071 33u
3041 1k5
7003 BC848
SOUND
3068 1k2
6010 LL4148
7010 BC858
4003
6001 LL4148
3028 10k
-11
CL36532077/017.F8-1
11V
0V
PROT
EHT
LOT
6547 LL4148
7543 BC856
TP
6546 LL4148
2547 10n
13
2546 100n
3548 3k9
3547 10
3549 120k
15
CL36532077/017.F8-2
1V
+28
3538
BEAM CURRENT
7530
3530 470k
2529 470n
6529 C43
3529 100k
3528 750
5555
7
2531 22n
TP55
CL36532077/017.F8-3
TV
E/W
7542
2543 10u
3544 39k
TP66
LINE
5526
7610
-5V6
+13
3542
7541
7540
3607 22k
3546
3540 30k
3543
2542 1u
3541 470k
2541 33u
3622 1
3623 1
CL36532077/017.F8-4
28V
0V7
TP62
PIN 7 IC7450
+5
3485 1k
3480 100k
6480 C4V3
FRAME
7481
3479
7480
2480 10u
3482 22
3481 1k
CL36532077/017.F8-5
ΔT
-ΔT
5V
+V
MAIN SOPS
3376 100
6376 C18
6375 LL4148
7241 BD944
6235 MA689
5235
18
5230
TP59
CL36532077/017.F8-6
16V5
<18V
>18V
CL36532077/017.FREF 130593

Fig. 8.2

NEL

_ 46532022/22B
230294

List of error messages

Error number on screen	Flashing LED							Description of error
	🛰/🔇	⧉	∞	⦶	⏻	I	II	
1[1]			X		X	X		I^{2}C, IC7108, SSP [H] (MSM6307)
3					X	X		I^{2}C, IC7215, 100Hz SAA 9042 [L] I^{2}C, IC7111, TXT SAA 9042 [L']
4				X		X		I^{2}C, IC7220, 100Hz [M] [L'} J83C652
5				X			X	I^{2}C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I^{2}C, IC7600, SSP [F] (TDA8417)
7							X	I^{2}C, IC7680, SSP [F] (TDA8425)
8						X	X	IC7440, frame rotation [Y], PCF8574 (16:9)
9			X	X		X		I^{2}C, IC7430, SSP [D] (TDA4680)
10				X	X		X	I^{2}C, IC7395, SSP [D] (TDA8443)
11				X	X			I^{2}C, front-end, SSP [C] (FQ 9XX)
12						X		I^{2}C, IC7137, SSP [H] (X24C04)
13			X					I^{2}C, bus on chassis blocked
14			X	X				I^{2}C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I^{2}C, IC7219, SSP [C] (TEA6414)
16			X			X		I^{2}C, IC7040, SAT Interface [P] (TEA6414)
17			X		X			IR-receiver on SSP [H] blocked (1100)
18				X		X	X	7115, SSP, μ proc. [H]
19			X	X	X	X		UART Bus blocked, 7115, SSP, μ proc. [H]
20				X	X	X	X	7115, SSP, μ proc. [H]
21				X				EAROM X24C08 empty, IC7137, SSP [H] (§ 8.3)
23	X				X			I^{2}C, IC7080, convergence panel [V] (TDA8444) (PTV)
28		X						I^{2}C, PIP tuner [J]
29		X			X			I^{2}C, IC7638, PIP-modulo [J] (SAA1300)
30			X		X		X	I^{2}C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I^{2}C, IC7001, NICAM-panel [K] (SAA7280)
33		X		X				I^{2}C, PLL (1500) PIP modulo [J]
34[1]	X		X				X	LNC supply on SAT box [Q,R] not correct
35[1]	X		X		X		X	IM-bus on SAT box [Q,S] blocked
36[1]	X		X	X			X	I^{2}C, bus on SAT box blocked
37[1]	X		X	X	X		X	I^{2}C, IC7450, D2-MAC [S] (X24C02)
38[1]	X		X			X	X	I^{2}C, SAT Tuner [Q] (SF914; SF916)
39[1]	X		X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40[1]	X		X	X		X	X	D2-MAC [S]
41[1]	X		X	X	X	X	X	HEF STROBE 2, IC7475, D2-MAC [S] (HEF4094)
42[1]	X				X		X	IC7250, TUNER/CONTROL [Q]
43[1]	X			X			X	UART bus blocked IC7250, TUNER/CONTROL [Q]
44[1]	X			X	X		X	SAT Tuner [Q] (SF914/916)
45[1]	X					X	X	IC7250, TUNER/CONTROL [Q]
46[1]	X				X	X	X	IC7250, TUNER/CONTROL [Q]
47[1]	X			X		X	X	IC7262, TUNER/CONTROL [Q]
48[1]	X			X	X	X	X	D2-MAC [S]
49[1]	X			X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51[1]					X	X	X	IC7250, TUNER/CONTROL [Q]
52[1]			X				X	D2B Bus EXT, SSP [H] blocked.
53			X			X	X	IC7330, MAC TXT [S], TPU2735
55			X	X		X	X	IC7140, Panorama [B], PCF8574 (16:9)
99	X		X		X			Protection

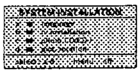
---

[1] This error is only possible on sets with built in SAT box.

- **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.** In case an error indication on the set is not included in this table, then check the optional codes (see § 7).

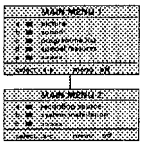
Installation

This part helps you with installing your TV, selecting your menu language, locating and storing your TV channels and composing your favourite list of programme numbers. To do this, follow the directions of the SYSTEM INSTALLATION menu very closely. The installation menu is shown as it will appear on your screen.


SYSTEM INSTALLATION
select menu off

Operation

After you have stored the TV channels, you can call them up on the screen. You can adjust the picture and sound via the main menu. The MAIN MENU is shown here as it will appear on the screen. Feel free to try out all the different possibilities of your TV. Use this part of the handbook to help you doing this.


MAIN MENU 1
picture
sound
special features
MAIN MENU 2
system installation
select menu off

- ○ This circle in front of a sentence indicates that you have to **do** something.
- ▷ This arrow in front of a sentence indicates the **result** of what you have done.

In the stripe under each menu you are told which keys you can press and how you can switch the menus off again.

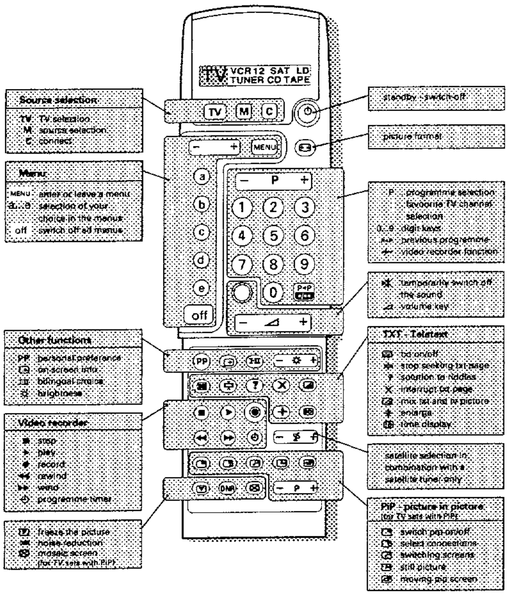
Contents

Installation

Selecting your Menu language
Searching for and Storing TV channels :
- Automatic
- Manual

Operation

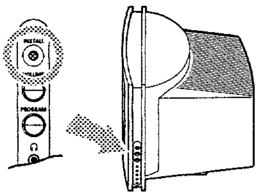
Operation
Main Menu
Other Functions
Pip Picture in Picture
Teletext
Peripheral Equipment
Tips


TV VCR 1 2 SAT LD TUNER CD TAPE
Source selection
TV TV selection
M source selection
C connect
Menu
MENU enter or leave a menu
a...e selection of your choice in the menus
off switch off all menus
standby - switch-off
picture format
P programme selection favourite TV channel selection
0...9 digit keys
previous programme
video recorder function
temporarily switch off the sound
volume key
Other functions
PP personal preference
on-screen info
bilingual choice
brightness
TXT - Teletext
txt on/off
stop seeking txt page
solution to riddles
interrupt txt page
mix txt and tv picture
enlarge
time display
Video recorder
stop
play
record
rewind
wind
programme timer
satellite selection in combination with a satellite tuner only
freeze the picture
noise reduction
mosaic screen (for TV sets with PiP)
PiP - picture in picture (for TV sets with PiP)
switch pip on/off
select connections
switching screens
still picture
moving pip screen
TV
M
C
MENU
a
b
c
d
e
off
P
1
2
3
4
5
6
7
8
9
0
PP
DNR

Selecting your menu language

You can choose **for yourself** the language of the menus - the instructions and the various possible choices - which you call up on your screen.

- ○ Press the INSTALL key on the right side of your TV set.


INSTALL
VOLUME
PROGRAM

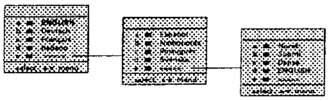
If the message CHILD LOCK ON appears, the child lock should be switched off. See Special Features.

- ▷ The SYSTEM INSTALLATION menu appears on the screen.

SYSTEM INSTALLATION
select menu off

It is also possible to enter the installation menu via the main menu. See Main Menu.

- ○ Press the red key a on the remote control.
- ▷ The language menu appears on the screen.


ENGLISH
Deutsch
Français
Italiano
>>>>>
select menu
Nederlands
Português
Svenska
>>>>>
select menu
Suomi
Dansk
ENGLISH
>>>>>
select menu

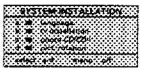
- ○ Press the colour key of your language choice.
- ○ Press the corresponding colour key for >>>>> if the language you want does not appear on the first language menu.
- ▷ LANGUAGE STORED appears for a moment at the top of the menu. The language menu disappears and the SYSTEM INSTALLATION menu appears again.

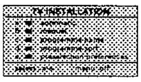
Searching for and storing TV channels

After you have switched on your TV and selected your menu language, you can search for and store your TV channels.
This can be done in two different ways : automatically or manually.

Automatic installation..................................	or	**Manual installation**..
All TV channels are searched for and stored automatically. The programme numbers are filled in the programme list. If desired you can modify the allocation of the channel numbers of one or more stored TV channels afterwards and delete or insert TV channels.		The manual installation is characterised by the possibility to select the way of searching with frequencies. You yourself must assign a number of your choice to the TV channel located. Follow very closely and step by step the instructions of the Manual Installation procedure. You must go through every step.

- ○ Press the green key b in the SYSTEM INSTALLATION menu.
- ▷ The TV INSTALLATION menu appears.


SYSTEM INSTALLATION
language
tv installation
pict. rotation
select menu off


TV INSTALLATION
automatic
manual
programme name
programme sort
preselection preferences
select menu off

Automatic installation

- ○ Press the red key a.
- ▷ AUTOMATIC lights up.
- ○ Press MENU + to select YES.
- ▷ SEARCHING, PLEASE WAIT appears and the TV is searching all the channels you can receive.

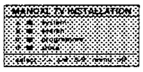
The automatic installation can be interrupted by pressing the MENU or OFF key.

- ▷ Every time a channel is found it is automatically stored in the memory under the next programme number in the programme list.
- ▷ When all channels are found the message TV INSTALLATION COMPLETED is displayed briefly on top of the menu.
  The programme list is automatically filled with all the programme numbers of the TV channels transmitted.
  The programme list is displayed without programme names.
  Now you yourself must assign a name to the TV channels located.

> The menu TV INSTALLATION appears again.

Manual TV installation

- ○ Press the green key b in the menu TV INSTALLATION.
- ▷ The menu MANUAL TV INSTALLATION appears.


MANUAL TV INSTALLATION
system
search
programme
store
select menu off

step a Selecting the TV system

The television picture is not broadcast in the same way in all countries.
We speak of different television systems (PAL, SECAM, NTSC, ...).
Now you must select the TV system **yourself**.

- ○ Press the red key a.

▷ The SELECTING THE SYSTEM menu appears.......	or	ONLY ONE SYSTEM AVAILABLE appears ....
1 You have your own aerial. ○ Press the colour key of the country or part of the world from where you want to select the TV channel. ▷ The MANUAL TV INSTALLATION menu now appears. ▷ Your selection lights up. **2** You are connected to the cable system. ○ Press the colour key of the country or part of the world where you now are located. ▷ The MANUAL TV INSTALLATION menu now appears. ▷ Your selection lights up. Go on to step **b**.		You have a set that can receive only one system. You do not need to make any selection. Go on to step **b**.

If you have pressed the wrong key, then repeat step **a**.

step b Searching for a TV channel

- ○ Press the green key b.
- ▷ SEARCHING appears and the TV is searching for a channel.
- ▷ The frequency increases until a channel is found.

Go to step **c** if you want to store the channel that has been found.

- ○ Press ⊞ under the door of the remote control to recognise which programme is being broadcast.
- ▷ The MANUAL TV INSTALLATION menu disappears temporarily.

Do you want a different channel or is the reception poor?

- ○ Press the green key b again.

Is the reception still poor? See Tips.

Fine-tuning :

You may be able to improve the reception of picture and sound of a TV channel. Adjust the frequency yourself with the MENU - or + key on the remote control.

Direct selection of a TV channel :

If you know the frequency of a TV channel, you can enter it directly with the digit keys on the remote control and in this way call up the TV channel.
Ask for a list of the frequencies at your cable company or at your dealer.

- ○ Enter the 5 digits of the desired frequency.
- ○ For frequencies under 100 MHz, first enter a 0. For example : 063.25.

Have you entered a wrong number?
First complete the frequency with arbitrary numbers and then start again.

Go on to step **c**.

step c Entering the programme number

Now you must assign a number of your choice to the TV channel located. In this way you decide for yourself the order of all your TV channels.
With the assigned programme number you can call up your TV channel again later.

- ○ Press the yellow key c.
- ▷ Hold down the **P** - or + key or use the digit keys on the remote control until the desired programme number appears in the menu.

Go on to step **d**.

step d Storing steps a to c

Now the TV system, the located TV channel and its programme number must be stored in the memory.

- ○ Press the blue key d.
- ▷ PROGRAMME STORED appears briefly at the top of the menu.
- ▷ The TV channel is stored in the memory.

repeat Do you want to store another TV channel?

○ Repeat steps a to d.

Are you connected to the cable system?
○ Begin immediately with step b. You have already selected the TV system in step a for all channels.

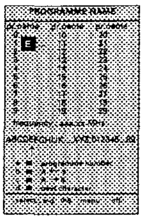
out Have you finished locating TV channels?
○ Press MENU.
▷ The TV INSTALLATION menu appears again.

Entering or modifying a programme name

Now you yourself must assign a name to the TV channels located. A name of maximum 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1, ...

○ Press the yellow key c.
▷ The PROGRAMME NAME menu and the programme list appear. Also the frequency of the current TV channel is displayed.
○ Press ⊞ under the door of the remote control to recognise which programme is being broadcast.
▷ The menu PROGRAMME NAME disappears temporarily.
○ Press the red key a.
○ *Select the* TV channel of which you want to change the name or to which you want to assign a name with the digit keys or with **P** - or +. External sources can not be selected with **P** - or +.

In the list you can now modify or enter the name of the TV channel. With the arrow under the letter and number line you select which letter or number in the list above you wish to enter . In the list there is a red or white block next to the chosen programme number.



○ Hold as desired , either the green key b down to move the arrow to the left, or else the yellow key c to move the arrow to the right.
▷ The letter or number that you indicate with the arrow appears in the block.
○ Press the blue key d.
▷ The block moves over one space. Now you can choose a following letter or number with the arrow.
○ Place the arrow between Z and 0 for a space.

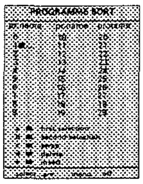
Did you fill in a wrong letter or number?
Press repeatedly on the blue key d until the block is back in the place where you want to make a change.
Now choose with the arrow the correct letter or number.

Are the complete names filled in?
○ Press MENU.
▷ The TV INSTALLATION menu appears again.

Modifying the programme list

According to your preference you can modify the programme list of the stored TV channels by swapping, deleting or inserting certain TV channels.

○ Press the blue key d.
▷ The PROGRAMME SORT menu appears.



a. swap

With the swap-function you can modify the allocation of the stored TV channels.
○ Press the red key a.
▷ FIRST SELECTION lights up.
○ Select the programme number of the TV channel of which you want to modify the programme number with the digit keys or with **P** - or +.
○ Press the green key b.
▷ SECOND SELECTION lights up.
○ Select the programme number of the TV channel which you want to swap with the programme number selected in your first selection.
○ Press the yellow key c.
▷ PROGRAMMES SWAPPED appears briefly at the top of the menu.
▷ The TV channels and their names selected in the first and the second selection are swapped.
○ Repeat this for all the other TV channels you want to replace.

b. delete

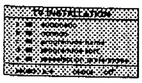
With the delete-function you can remove the TV channels you do not like to have in the programme list anymore.
○ Select, with the digit keys or with **P** - or +, the programme number you want to delete .
○ Press the blue key d.
▷ DELETE lights up and the programme number and name of the TV channel to be deleted starts flickering in the FIRST or SECOND SELECTION line.
○ Press MENU + to select YES.
▷ DELETING PROGRAMME appears briefly at the top of the menu.
▷ The selected TV channel is deleted , its place is taken by the next programme and the subsequent programme numbers are shifted up one place.
○ Repeat this for all the other TV channels you want to delete.

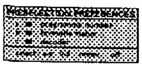
c. insert

You can add a TV channel at the place you like in the programme list with the insert-function of the programme sort menu.
○ Press the red key a.
▷ FIRST SELECTION lights up.
○ Select, with the digit keys or with **P** - or +, the programme number where you want to create an empty place to insert a new TV channel.
○ Press the white key e.
▷ INSERT lights up.
○ Press MENU + to select YES.
▷ INSERTING PROGRAMME appears briefly at the top of the menu.
▷ All the programmes starting from the one indicated in the programme list are shifted one place downwards. The programme number of the empty place appears in red. You can now insert a new TV channel with the MANUAL TV INSTALLATION method. See earlier.

Are all the TV channels allocated as you like ?
▷ Press MENU.
> The TV INSTALLATION menu appears again.

Preselection preferences





All the stored TV channels have been automatically placed into the programme list. In the PRESELECTION PREFERENCES menu you yourself should indicate for each stored TV channel if you want to keep that programme number as a favourite.
You can do this also for a programme number you want to reserve for the programmes you receive from your decoder.
This will make selecting your favourite TV channels a lot easier and faster.
When you run quickly through the TV channels by holding the **P** - or + key pressed down, only those TV channels which are in the favourite list will be displayed.
When you select a TV channel with the digit keys, the indication of the selected TV channel will be displayed in white characters when it is a TV channel from the favourite list, in red characters when it is a TV channel which is not in the favourite list.

a Favourite TV channels

○ Press the white key e in the TV INSTALLATION menu.
▷ The PRESELECTION PREFERENCES menu appears.
○ Press the red key a.
▷ PROGRAMME NUMBER lights up.
○ Select the programme number of a TV channel with **P** - or + or with the digit keys.
○ *Press the green key* b.
▷ FAVOURITE STATUS lights up.
○ Press MENU - or + to select NO or YES.
In this way you decide whether you want to keep the selected TV channel as a favourite TV channel or not.
○ Repeat this for each programme number.

b Decoder

In case you have connected a decoder, see Decoders, you can define one or more programme numbers as a decoder preselection.
○ Press the red key a in the PRESELECTION PREFERENCES menu.
▷ PROGRAMME NUMBER lights up.
○ Select the programme number under which you want to store the programme coming from your decoder with **P** - or + or with the digit keys.
○ Press the yellow key c.
▷ DECODER lights up.
○ Press MENU - or + repeatedly until the designation EXT1 or EXT2 appears according to the euroconnector to which you connected your decoder. This is not possible with a decoder connected to EXT3.
Select NO if you do not want the selected programme number being activated as a decoder preselection.
○ Press MENU twice.
▷ The SYSTEM INSTALLATION menu appears again.

Photo CD/CD-I

In case you have connected a photo Compact Disc or a Compact Disc Interactive see Peripheral Equipment.
○ Press the yellow key c in the SYSTEM INSTALLATION menu.
▷ PHOTO CD/CD-I lights up.
○ Press MENU + to select YES.
▷ This offers you an optimum picture quality for your Photo CD or CD-I.

Picture rotation

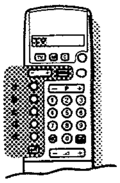
○ *Press the blue key d in the* SYSTEM INSTALLATION *menu.*
▷ PICT. ROTATION lights up.
○ Press MENU - or + repeatedly to adjust the rotation of the picture.
○ Press **off** to exit the SYSTEM INSTALLATION menu.

Operation

Standby

○ *With the standby key ⏻ at the top of the remote control you can* temporarily switch the TV off.
▷ The red lamp on the TV lights up.
○ Press the C-key or a digit key in order to turn the TV on again.
If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby.
Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. We advise you to switch off your TV overnight instead of leaving it on standby. You save energy and the picture tube is demagnetised which supports good picture quality.

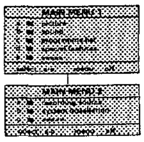
Main Menu



You use the keys in the grey area of the drawing to operate the main menu.

With the colour keys a-b-c-d-e you select your choice in the menus.

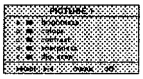
The main menu is split into 2 menus and you can:
. adjust **picture** and **sound** according to personal preference
. call up a **programme list** with an overview of the TV channels stored
. select from among various **special features**
. select **recording sources** for your video recorder
. enter the **system installation** menu.



○ Press MENU.
▷ The MAIN MENU 1 appears.
○ Press **off** to switch off each menu.

Adjusting the picture

- ○ Press MENU.
- ○ Press the corresponding colour key for PICTURE.
- ▷ The PICTURE 1 menu appears



- ○ Press one of the colour keys to select the adjustment you want to regulate.
  When you have a set that can receive the NTSC system and when USA is selected in Selecting the TV system, also the option **tint** appears in the PICTURE 2 menu.
- ▷ The selected adjustment lights up.
- ○ Press MENU - or + in order to regulate the selected adjustment.
- ○ Press a colour key once more in order to select another adjustment.

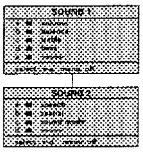
Do you want to store the changed adjustment in the memory ?
- ○ See Special Features, PP store.

Digital scan (Line Flicker Reduction)
In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.
- ○ Press the corresponding colour key for DIG. SCAN.
- ○ Press MENU - in order to switch off the line flicker reduction.

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

Adjusting the sound

- ○ Press MENU.
- ○ Press the corresponding colour key for SOUND.
- ▷ The SOUND 1 menu appears.



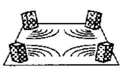
Volume, balance, treble, bass
- ○ Press one of the colour keys to select the adjustment you want to regulate.
- ▷ The selected adjustment lights up.
- ○ Press MENU - or + in order to regulate the selected adjustment.
- ○ Press a colour key again to select another adjustment.

Do you want to store the modified adjustment in the memory ?
- ○ Press MENU.
- ▷ The MAIN MENU 1 appears.
- ○ See Special Features, PP store, .

Speech
- ○ Press the white key e in the SOUND 1 menu.
- ▷ The SOUND 2 menu appears.
- ○ Press the corresponding colour key for SPEECH.
- ▷ SPEECH lights up.
- ○ Press MENU + to reveal the treble and to suppress the bass.
- ○ Press MENU - to switch off.

Spatial and surround sound
- ○ Press the corresponding colour key for SPATIAL in the SOUND 2 menu.
- ▷ SPATIAL lights up.
- ○ Press MENU - or + to switch off or on.
- ▷ When SPATIAL ON is selected, it seems as though the loudspeakers are spread further apart from one another. You get a spatial sound effect.

You achieve a Surround Sound effect if you have **2** or for a maximum effect **4** extra loudspeakers connected. See Peripherals.
In case of 2 extra loudspeakers, always connect them to REAR at the back of your TV.
In case of 4 extra loudspeakers,connect them to FRONT and REAR.



- ○ Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- ○ Place the loudspeakers in the corners of an imaginary square.

Mono broadcasting activates the two loudspeakers of your TV set or the two loudspeakers connected to FRONT and REAR.
- ○ Select SPATIAL ON.
- ▷ You get a pseudo stereo effect.

Stereo broadcasting activates the two loudspeakers of your TV or the two loudspeakers connected to FRONT and the two loudspeakers connected to REAR.
- ○ Select SPATIAL ON.
- ▷ You get a spatial stereo effect.

Sound mode
- ○ Press the corresponding colour key for SOUND MODE in the SOUND 2 menu.
- ▷ SOUND MODE lights up.
- ▷ If the TV channel which you are now watching transmits stereo or digital sound and if your set is equipped with Nicam, you can choose between :
  . **stereo** or **mono** if the TV channel transmits *stereo* sound
  . **digital** or **analogue** if the TV channel transmits *digital* sound.
- ○ Select **analogue** or **mono** in case of weak digital or stereo sound signals.
- ○ Press MENU - or +.

If you do not make a sound choice for the TV channel which you are watching your TV will choose between stereo or digital sound, depending on the sound the TV channel transmits.

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

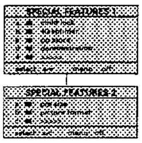
Programme list

- ○ Press the corresponding colour key for PROGRAMME LIST in MAIN MENU 1.
- ▷ A list with an overview of the first 30 stored TV channels appears.
  TV channels from the favourite list are displayed in white characters.
  TV channels which are not in the favourite list are displayed in red characters.
- ○ Press MENU - or + to run through the other pages (to 99) of the programme list.
- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

- ○ Press off.
- ▷ The MAIN MENU disappears.

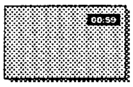
Special features

- ○ Press MENU.
- ○ Press the corresponding colour key for SPECIAL FEATURES.
- ▷ The SPECIAL FEATURES 1 menu appears.



- ○ Press a colour key in order to choose between child lock, sleeptimer, pp store, demonstration, pip size (for sets with the Picture in Picture option) or picture format.
- ▷ Your choice lights up.
- ○ Press once more on a colour key to make another choice.

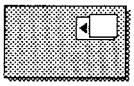
Child lock
If the child lock is on, the TV can only be switched on with the digit keys on the remote control. The keys on the TV cannot be used.
If the message CHILD LOCK ON appears, the child lock should be switched off.
- ○ Press the corresponding colour key for CHILD LOCK.
- ○ Press MENU - or + to switch the child lock off or on.



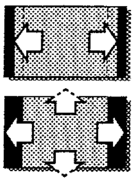
Sleeptimer
With the aid of the sleeptimer you can set the time when the TV should switch itself off.
- ○ Press the corresponding colour key for SLEEPTIMER.
- ○ Hold the key MENU + pressed down.
- ▷ The counter runs from **off** up to **90** minutes.
- ○ Hold the key MENU - pressed down.
- ▷ The counter runs from **90** down to **off**.
  If you have set a time, then one minute before the TV switches off the remaining minute automatically appears on the screen.
  You can always switch off your set earlier or change the time set.

PP store
Adjustments made in the picture- and sound menu can be stored in the memory and be called up again with the **PP** key.
- ○ Press the corresponding colour key for PP STORE.
- ▷ PP STORE lights up and PERSONAL PREFERENCE STORED appears briefly on the top of the menu.
  At this point all previous adjustments are cancelled.
  See also Other functions.

Demonstration
This function demonstrates one after another all the possible options of your TV.
- ○ Press the corresponding colour key for DEMONSTRATION.
- ○ Press MENU + to switch the demonstration on.
- ○ Press **off** in order to stop the demonstration.



Pip size
You can select either a large or a small pip format.
- ○ Press the corresponding colour key for PIP SIZE in the SPECIAL FEATURES 2 menu.
- ○ Press MENU - or +.
  For more information about Pip, see Pip, Picture in Picture.



Picture format
A programme in the conventional picture format can be expanded so that you can take full advantage of your wide screen.
- ○ Press the corresponding colour key for PICTURE FORMAT.
- ○ Press MENU - or + repeatedly to select NORMAL, PANORAMA or EXPAND in order to choose between a conventional, a panoramic or a full expanded picture format.

Recording Source

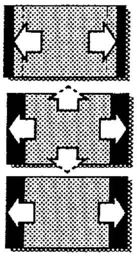
If you want to record a programme, then first read Peripherals, Recording.

System Installation

You can also enter the System Installation menu via the Main Menu 2 to select your menu language and to locate and to store your TV channels.

Other functions

Picture format



- ○ Press ▣ repeatedly to select
  . or a conventional picture format
  . or a panoramic picture format
  . or a full expanded picture format
  . or a wide screen picture format.
- ▷ The information PANORAMA appears briefly on the screen if a panoramic picture format has been selected.
- ▷ The information MOVIE EXPAND appears briefly on the screen if a full expanded picture format has been selected.
- ○ Keep MENU + pressed to move the full expanded picture upwards so that the subtitles, if there are, become visible at the bottom.
- ○ Keep MENU - pressed to move the full expanded picture downwards again.
- ▷ The information WIDE SCREEN appears briefly on the screen if a wide screen picture format has been selected.

Making subtitles visible from pictures from VCR1, VCR2 or SAT in the MOVIE EXPAND picture format
- ○ Press the **TV** key on the remote control.
- ○ Keep MENU + or - pressed to move the picture upwards or downwards again.
- ○ Press the **M** again until the designation **VCR1**, **VCR2** or **SAT** appears in a grey block.
- ▷ Now you can operate your video recorder 1 or 2 or satellite tuner again with the remote control of the TV.

Previous programme

- ○ Press the P◂P key.
- ▷ The previous selected TV channel is displayed again.
  The -/- indication has a video recorder function.

Selecting satellites

The keys ⚲ - and + are only functional when having connected a satellite tuner in combination with a satellite positioner and an automatically rotatable polarmount antenna to select satellites.

PP key

With the green **PP**-key you can call up again the picture and sound adjustments which have been stored with the **PP store** in the Special Features menu.

- ○ Open the door of the remote control.
- ○ Press **PP**.

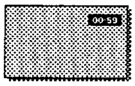
Information on screen

After the selection of a TV channel the following information appears briefly on your screen :

. the programme number and name of the selected TV channel
. the actually selected sound mode if the TV-channel transmits stereo or digital sound
. SOUND MUTED when the sound is temporarily interrupted
. the name of the pip connection if pip is switched on.
See Pip-Picture in Picture.
. DUAL I or II in case of bilingual broadcast.

SOUND MUTED

- ○ Open the door of the remote control.
- ○ Press ⊞ **short.**
- ▹ The channel information appears on the screen for a few seconds.
- ▹ If the sleeptimer is on, then the remaining time becomes visible.



Permanent programme number

- ○ Open the door of the remote control.
- ○ Press ⊞ **long.**
- ▹ The channel information appears on the screen for a few seconds and the permanent programme number remains in the upper right hand corner of the screen when it was off, or disappears when it was on.

Bilingual Broadcast

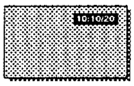
If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, you can make your choice.

- ○ Open the door of the remote control.
- ○ Press key I-II and select language I or II.
- ▹ DUAL I or II appears for a moment on top of the screen.
  The setting is stored in the memory for the selected TV channel when switching to another TV channel or to standby.

Time

The time can only be called up if the TV channel you are watching is also broadcasting teletext.
Teletext does not need to be switched on.

- ○ Open the door of the remote control.
- ○ Press ⏲.
- ▹ The time appears in the upper right hand corner of the screen.
- ○ Press ⏲ again in order to switch off.



Freezing the picture

When watching you can freeze the picture at any moment.

- ○ Press ▼.
- ○ Press ▼ again to return to normal picture.

DNR

With DNR, Dynamic Noise Reduction, you can reduce the noise when receiving a weak signal and so improve the picture quality.

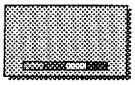
- ○ Press the DNR key repeatedly to select DNR MIN, DNR MED, DNR MAX or DNR OFF.
- ▹ Your selection appears for a moment on top of the screen.
  DNR MED offers you an optimum picture quality, and it is the most ideal setting for signals of normal strength.
  DNR MAX is **not** necessary when the picture quality is good.

The setting is stored in the memory only for the selected TV channel after you have switched to another TV channel.

Mosaic screen

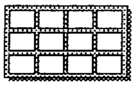
With the mosaic screen, you can scan the TV channels stored in the favourite list, display successive frozen pictures with the photo finish function and reproduce the main picture image by image with the strobe function.

- ○ Press ⊗.
- ▹ A menu line appears on the bottom line of the screen. It contains four functions, each having another background colour, corresponding to the menu colour keys.
- ○ Press the corresponding colour key to activate one of the 4 functions.



Scan

- ○ Press the red key a.
- ▹ A scan of the stored TV channels is performed, starting with programme number 0.
  Only TV channels placed in the favourite list or programmes from switched on peripherals are displayed. On the last position, bottom right, a live picture is shown of the programme that was displayed before the mosaic screen was switched on.
- ○ Press the red key a again.
- ▹ A following series of stored TV channels from the favourite list or programmes from switched on peripherals is scanned.
  Each mosaic-picture will contain its belonging programme number.
- ○ Select a TV channel with the digit keys.
- ▹ The mosaic screen disappears and the selected TV programme will be displayed.
- ○ Press the blue key d to interrupt the scan function and to switch off the mosaic screen.



Never perform a scan while recording a TV programme with a video recorder connected to EXTERNAL 1, 2 *or* 3 *and when having selected an option in the Recording Source menu since the scan will be recorded on tape.*

Photo finish

- ○ Press the green key b.
- ▹ The main picture is displayed in successive frozen pictures.
  The last picture on the bottom right will remain live.
- ○ Press the green key b again.
- ▹ A new photo finish picture is displayed, overwriting the old one.
- ○ Press the blue key d to switch off the photo finish function and to switch off the mosaic screen.
- ▹ The programme that was selected before the mosaic screen was switched on, appears again.

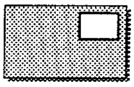
Strobe

- ○ Press the yellow key c.
- ▹ The picture is reproduced image by image. So you get an interrupted movement.
- ○ Press the yellow key c again.
- ▹ The picture is reproduced image by image in a faster way.
- ○ Press the yellow key c once again.
- ▹ The strobe function is switched off.
- ○ Press the blue key d to switch off the mosaic screen.

Pip - Picture in Picture

Switching pip on and off

- ○ Open the door of the remote control.
- ○ Press ◳.
- ▹ The pip screen appears and the image is the same as in the main screen.
- ▹ The name of the pip programme appears briefly on the main screen.
- ○ Press ◳ again to switch pip off.

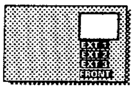


Selecting pip programmes

- ○ Press - P + of the pip keys in order to change the TV channels in the pip screen.

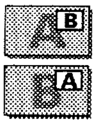
Selecting pip connections

- ○ Press ◳ repeatedly.
- ▹ The name of the connections appear.
  If any other electronic unit is connected with a eurocable and switched on, its programmes appear in the pip screen.
  Use - P + of the pip keys in order to change the TV channel in the pip screen.
  For connecting equipment to EXTERNAL 1, EXTERNAL 2, EXTERNAL 3, FRONT, see Peripheral Equipment.



Switching screens

- ○ Press ⇄.
- ▹ The main screen and the pip screen exchange places.
  If the TV channel is only in the pip screen and not in the main screen, then use - P + of the pip keys in order to change your TV channel in the pip screen.

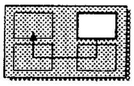


Still Picture

- ○ Press ◳.
- ▹ The picture in the pip screen stands still.
  Even when pip is not switched on, the main screen will appear as a still picture in the pip screen.
- ○ Press ◳ again or select another channel in the pip screen in order to cancel the still picture.

Moving the Pip screen

- ○ Press ◳.
- ▹ Each time you press this key, the pip screen moves to another corner of the main screen.

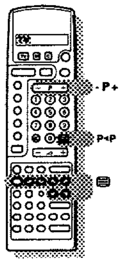


If the main screen is a full expanded picture format, the pip screen only moves to the upper left hand corner of the main screen.

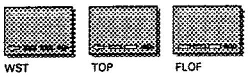
Pip Size

You can select either a large or a small pip screen.
See Main Menu : Special Features.

Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the index (usually page 100). TV programmes are sometimes subtitled for the hard of hearing. Depending on the TV channel, teletext is transmitted in different systems: WST, TOP, FLOF. The system utilised is indicated in the options line at the bottom of the screen.



Switching Teletext On and Off

- ○ Select the TV channel for the desired teletext broadcast.
  Teletext cannot be switched on when there is a menu on the screen.
- ○ Open the door of the remote control.
- ○ Press ▤ in order to switch on the teletext.
- ▹ The contents appear on the screen together with two information lines at the top and an options line at the bottom.

When a selected teletext page contains several subpages, the subpage numbers which are automatically stored in the memory appear in the first information line. The coloured number indicates the displayed subpage. The white numbers refer to the subpages which can be selected with MENU - or +.

In the following information line appears:
. the name of the TV channel selected
. the page counter
. date and time.

- ○ Press ▤ again in order to switch off the teletext.
- ▹ The TV channel reappears.

Eas

The m

A cons
probab
. a fast
in tra
. the pr
. the di
digit
. the pr
. the c
select
are in
mem

The pr
user.

Sele

With th

- ○ Enter t
  digit ke
- ▹ The pa
  page a
  numbe
- ▹ A mess
  a not e
  Page n
  exist.
- ○ Enter t

Qui

- ○ Press P
- ○ Press P

Sele

- ○ Press t
- ▹ The pr

Sele

When
the sub
The co
display
The oth
transm

- ○ Press M
- ○ Press M

Sele

- ○ Press t
- ▹ The inc

Spe

- ○ Open th

Hold

You ca
wrong

- ○ Press
- ▹ ≡⇕ app
  The pag
- ○ Enter a
- ▹ ≡⇕ dis

Reveal

Some p
and puz

- ○ Press ?
- ○ Press ?

Interrup

- ○ Press X
- ▹ The TV
- ▹ ▤ at th
  mode.
  Before i
  When th
  screen.
- ○ Press X
- ▹ Teletext

Mix

- ○ Press
- ▹ The tele
  same ti
- ○ Press
- ▹ Only the

Enlarge

- ○ Press ÷
- ○ Press ÷
- ○ Press o

Subpag

By addi

- ○ Enter th
- ○ Press
- ○ Enter th
  of sever
- ○ Press

Subtitle

- ○ Select th
- ○ Select th
- ▹ Subtitle
  TV prog

Easy Teletext system

The major advantages of this new teletext system are :

A considerable **reduced waiting time** by predicting what the user will probably select and which results in :

. a fast and direct selection of previous and following pages which are in transmission
. the precapturing of the pagenumbers read from the displayed page
. the direct selection of the last 2 page numbers selected with the digit keys
. the precapturing of the pages referred to in the options line
. the creation of a **habit watcher list** : not predictable pages, being selected by the user, are put in a list of preferred pages so that they are immediately available afterwards. The pages are stored in the memory when switching off teletext or when switching to standby.

The precapturing of up to **9 subpages** to be controlled by the teletext user.

Selecting a Teletext Page

With the digit keys ....**Or** **With the options line** ....

- ○ Enter the desired page number with the digit keys.
- ▻ The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
- ▻ A message appears when you have entered a not existing or an incorrect page number. Page numbers beginning with 0 or 9 do not exist.
- ○ Enter the correct page number.

- ○ Select with the colour keys, corresponding to the coloured options at the bottom of the screen and depending on the teletext the selected TV channel transmits,
  - the previous <= or the following => pages
  - the previous selected pages
  - another subject

Quickly run through the teletext pages

- ○ Press **P** - to run through the previous pages.
- ○ Press **P+** to run through the following pages.

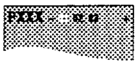
Selecting the previous teletext page

- ○ Press the P◂P key.
- ▻ The previous selected teletext page is displayed again.

Selecting subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
The coloured number in the first information line refers to the displayed subpage.
The other subpage numbers appear in white as soon as the transmission has found them.

- ○ Press MENU - to select the previous subpage.
- ○ Press MENU + to select the following subpage.



Selecting the index teletext page

- ○ Press the white colour key ⊖.
- ▻ The index, usually p. 100, appears.

Special teletext functions

- ○ Open the door of the remote control.

Hold

You can stop the page counter from seeking when you have entered a wrong page number or when the page is not available.

- ○ Press ⇔.
- ▻ ≡⇔ appears in the first information line.
  The page counter stops seeking the entered page number.
- ○ Enter another page number.
- ▻ ≡⇔ disappears.

Reveal

Some pages contain concealed information, such as solutions to riddles and puzzles.

- ○ Press ? to call up concealed information.
- ○ Press ? again in order to switch off the concealed information.

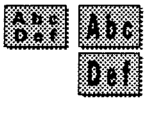
Interrupt

- ○ Press X.
- ▻ The TV programme appears.
- ▻ ⊟ at the top of the screen indicates that you are still in the teletext mode.
  Before interrupting teletext, you can select a page number.
  When the page has been found, the page number appears on your screen.
- ○ Press X again.
- ▻ Teletext reappears.

Mix

- ○ Press ◪.
- ▻ The teletext page and the TV programme appear on the screen at the same time.
- ○ Press ◪ again.
- ▻ Only the teletext page is displayed.

Enlarge



- ○ Press ✚ to enlarge the top half of the teletext page.
- ○ Press ✚ again to enlarge the bottom half of the teletext page.
- ○ Press once more to return to normal page size.

Subpage

By adding a subcode you can call up a desired subpage.

- ○ Enter the page number.
- ○ Press ⊡.
- ○ Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
- ○ Press ⊡ in order to cancel the subcode.

Subtitles and newsflashes

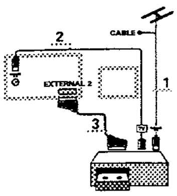
- ○ Select the contents page (usually page 100).
- ○ Select the page number for subtitles or newsflashes.
- ▻ Subtitles or newsflashes, if there are, appear at the bottom of the TV programme.

Peripheral Equipment

There is a wide range of electronic equipment that can be connected to your TV.
The following connection diagrams show you where the different equipment should be connected at the back or the right side of the TV.

TV and video recorder

- ○ Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect a eurocable **3** additionally.



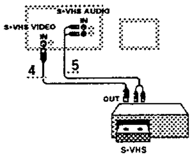
S-VHS video recorder

- ○ Do you have a S-VHS video recorder with S-VHS connectors, then connect as well as the aerial cables **1 and 2**

  the S-VHS cables **4** and **5**

  and the S-VHS cables **6** and **7**.

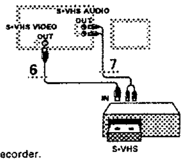
  Do not connect an additional eurocable.



OR

- ○ Do you have a S-VHS video recorder with a S-VHS euroconnector, then connect as well as the aerial cables **1** and **2**, the S-VHS eurocable **3**.

  Never connect to the same TV one video recorder with S-VHS cables at the same time as one video recorder with a euroconnector.
  The euroconnector has no function.

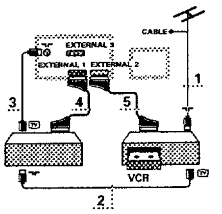


Searching for and storing the testsignal of the video recorder

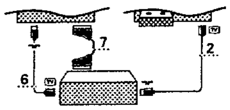
- ○ Unplug the aerial cable of the aerial socket ⊤ of your video recorder.
- ○ Switch on your TV and put the video recorder on the testsignal. (See the handbook for your video recorder.)
- ○ Press the INSTALL key at the right side of your TV, or enter the System Installation menu via the main menu.
- ▻ The SYSTEM INSTALLATION menu appears.
- ○ Search for the testsignal of your video recorder in the same way as you searched for and stored the TV channels. See Installation, Searching for and storing TV channels.
  Store the testsignal either under programme number 0 or between 50 and 99.
- ○ Insert the aerial plug again into the aerial socket ⊤ of your video recorder after you have stored the testsignal.

TV, video recorder 1 and one or more peripherals

- ○ Connect the aerial cables **1**, **2** and **3** as shown alongside. A better picture quality is obtained if you connect the eurocable **4** to EXTERNAL 1 or 3 and the eurocable **5** to EXTERNAL 2 additionally.
- ○ Look for the test signal of your peripheral in the same way as you do for a video recorder.



When having more peripherals, you can also connect them to each other with an extra aerial cable **6** and an additional eurocable **7** to obtain a better picture quality.

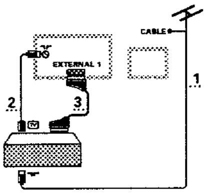


Only with a video recorder connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment. See Recording with your video recorder.

TV and laser disc or satellite tuner or Photo CD/CD-I equipment

- ○ Connect the aerial cables **1** and **2** as shown alongside.
  A better picture quality is obtained if you connect the eurocable **3** additionally.
  See also Installation, Photo CD/CD-I, if you connect a Photo CD/CD-I equipment.

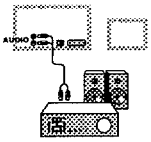
  Look for the test signal of your equipment in the same way as you do for a video recorder.



Audio equipment

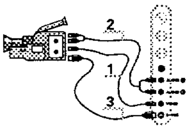
You can listen to your TV sound via your audio equipment.

- ○ Therefore connect the audio cables to the audio input of your equipment and to AUDIO L and R at the back of your TV.
- ○ Press ✻ on the remote control.
- ▻ The loudspeakers of your TV are switched off.



Camera and camcorder

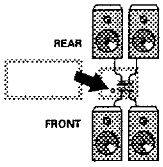
- ○ Connect your camera or camcorder to FRONT at the right side of your TV.
- ○ Connect the equipment to VIDEO 1 and AUDIO L 2 for mono equipment.
- ○ In the SOUND menu select mono sound. See Main Menu, Adjusting the sound, Sound mode.
- ○ Connect also AUDIO R 2 for stereo equipment.
- ○ In the SOUND menu select stereo sound.
  S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the S-VHS input 3 and AUDIO inputs 2.



Extra loudspeakers

To achieve a better sound effect you can connect 2 of 4 extra loudspeakers, min. 8 Ohm.
See also Spatial and Surround sound.

- ○ Hold the connector clip pressed in and insert the ends of the wires into the openings. On the back of the TV it is indicated where you connect the FRONT and REAR loudspeakers.



In case of 2 extra loudspeakers:

- ○ Connect them to FRONT .... **or**
- ○ Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- ▷ You achieve a better front sound effect.

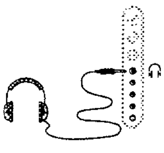
- ○ Connect them to REAR.
- ▷ You achieve a surround sound effect.
  A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to REAR and 12 m wire can be purchased from your dealer.
  Do never connect the loudspeakers from these kit to FRONT.

In case of 4 extra loudspeakers :

- ○ Connect them to FRONT and REAR.
- ○ Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.

Headphone

- ○ Insert the plug into the headphone socket 🎧 at the right side of the TV.
- ○ Press 🔇 on the remote control.
- ○ Adjust the volume with ◿ - or +.
- ▷ The internal loudspeakers of your TV are switched off.
  The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

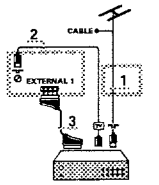


Decoders

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.
For further information, ask your dealer. See also the booklet supplied with your decoder.

Connecting a decoder with an aerial socket to the TV

- ○ Connect the aerial cables **1** and **2** as shown alongside.
  When your decoder has a euroconnector you obtain a better picture quality if you connect a eurocable **3** additionally to EXTERNAL 1.



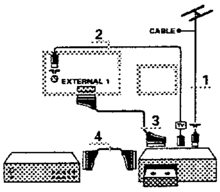
Connecting a decoder without an aerial socket to the TV

- ○ Connect the decoder with your TV with a eurocable **3** only.

Connecting the decoder to the video recorder

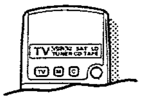
Some video recorders have a special euroconnector for decoder.

- ○ Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder.
  See also the handbook of your video recorder.
- ○ To connect your video recorder to the TV, see before.



If you want to connect more equipment to your TV, consult your dealer.

Reproducing Picture and Sound



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.
Then press M on the remote control repeatedly until the designation **VCR1, VCR2, SAT, LD, TUNER, CD** or **TAPE** appears in a grey block, according to the equipment.
To operate your TV again, first press the **TV** key and enter the programme number of the TV channel you want to watch with the digit keys.

a. from equipment connected only with an **aerial cable**

- ○ Switch your TV on.
- ○ With the digit keys select the programme number under which you have stored the test signal.
- ○ Switch on your equipment.
- ▷ The picture and/or sound is reproduced.

Do you want to watch TV again ?

- ○ Enter the programme number of the TV channel which you want to watch with the digit keys.

b. from equipment connected with a **eurocable**

- ○ Switch your TV on.
- ○ Switch your equipment on.
- ▷ Either the picture and/or the sound is reproduced or descrambled.

If this is not the case :

- ○ Press **C** repeatedly until the designation EXT1, EXT2, EXT 3 or FRONT appears on the screen, according to where you connected your equipment at the back or the right side of your TV.
- ▷ Either the picture and/or the sound is reproduced.

Do you want to watch TV again ?

- ○ Press **C** repeatedly again until the picture and/or the sound from the TV channels is reproduced.

c. from a S-VHS recorder connected with **S-VHS cables**

- ○ Switch your TV on.
- ○ Press **C** repeatedly until the indication EXT2 appears on the screen.
- ○ Switch your S-VHS recorder on.
- ▷ The picture stored in your video recorder from a pre-recorded cassette or from a TV channel is reproduced.

d. from equipment connected to the **right side** of the TV

- ○ Switch your TV on.
- ○ Press **C** repeatedly until the indication FRONT appears on the screen.
- ○ Switch your equipment on.
- ▷ The picture is reproduced.
  Do you want to watch the TV picture again ?
- ○ Enter the programme number of the TV channel which you want to watch with the digit keys.

Recording with your video recorder

1. Recording a TV programme

only using an **aerial** cable

- ○ Select the programme number on your video recorder.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

using a **eurocable** connected to the euroconnector EXTERNAL 2

- ○ Select the programme number on the TV.
- ○ Press MENU.
- ○ Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▷ RECORDING SOURCE appears.
- ○ Press the red key a.
- ▷ TV TO EXT 2 is displayed.
- ○ Press off.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

using a **eurocable** connected to the euroconnector EXTERNAL 1

- ○ Select the programme number on the TV.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

2. Recording a programme from equipment connected to EXTERNAL 2, EXTERNAL 3 or FRONT

RECORDING SOURCE

- ○ Switch on the equipment.
- ○ Press MENU.
- ○ Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▷ RECORDING SOURCE appears.
- ○ With the colour keys select the connection from which you want to record.
- ▷ Your selection lights up.
- ○ Press **off**.
- ○ Set your video recorder to record.
  (See the handbook for your video recorder.)

Tips

Poor Picture
Have you selected the correct TV system ?
Is your TV set or house aerial located too close to loudspeakers,non-earthed audio equipment or neon lights, etc. ?
Mountains or high buildings can cause double pictures or ghost images.
Sometimes you can improve the picture quality by changing the direction of the outside aerial.
Is the picture unrecognisable ? Check if you have entered the correct frequency or adjust the frequency by fine tuning. See Installation.
Are brightness and contrast out of adjustment ? Press the **PP** key.
Switch off your TV overnight with ⏻ on the left side of the TV.

No picture
Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket ?
Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible secondly installed TV in good condition ? If in doubt, consult your dealer.
NO PICTURE means that the selected peripheral equipment is transmitting no picture.
Did you press the correct keys on the remote control ? Try it once more.
Did you press ▤ again after switching on teletext ?
Has the child lock been switched off ? See Special Features.

Sound
Did you perhaps interrupt the sound with the 🔇 key ?
Were the internal loudspeakers perhaps switched off by the switch on the back of your TV set ? See Extra loudspeakers.
Is the sound coming out of only one loudspeaker ? Was the balance perhaps set to one extreme ? See SOUND menu.
Select SPATIAL ON in the Sound menu if there is no sound coming out of the extra loudspeakers in back. See Spatial and Surround Sound.

Remote control
Does your TV no longer respond to the remote control ? Check whether the indication TV appears in a grey block.
Perhaps the batteries are empty.

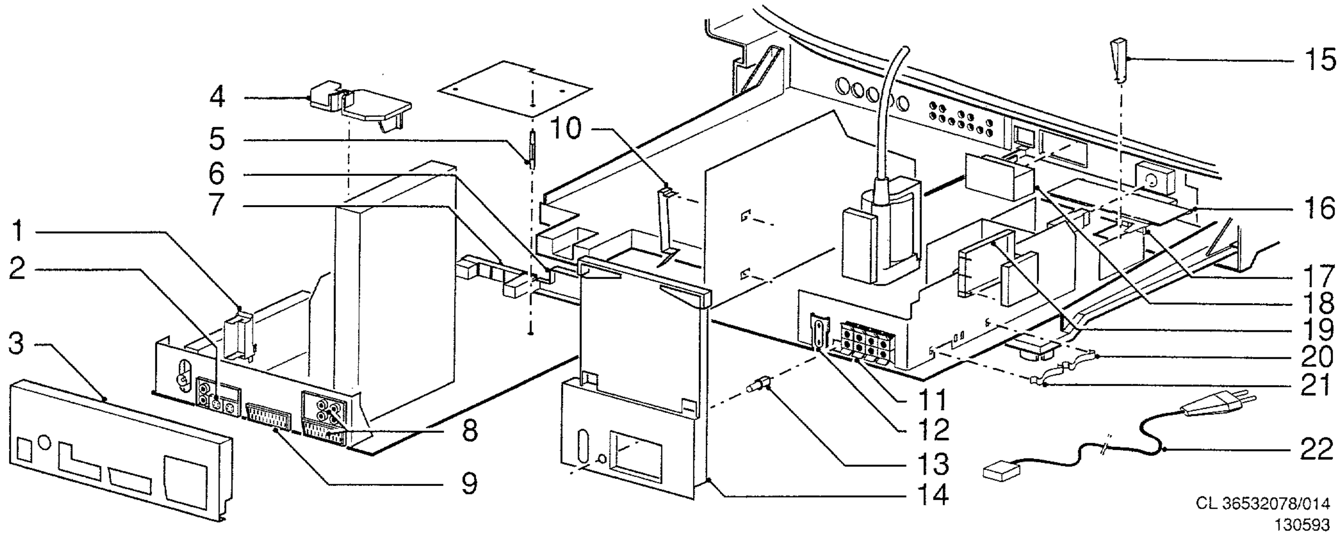
Menu
Did you select the wrong menu ? Once more press MENU or **off** to exit from the menu.

Connections
Check whether your peripheral equipment is in fact properly connected.
Have you switched on the peripheral equipment ?

No solution ?
Switch your TV set off and then on again.
Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician when nothing helps.

Ohjeita laitteen käytöstä poistamiseksi
Laitteessa käytettyjä materiaaleja voidaan kierrättää ja käyttää uudelleen, jos purkamisen hoitaa tähän erikoistunut liike. Suosittelemme noudatettavaksi vanhojen laitteiden kierrätyksestä annettuja paikallisia ohjeita.

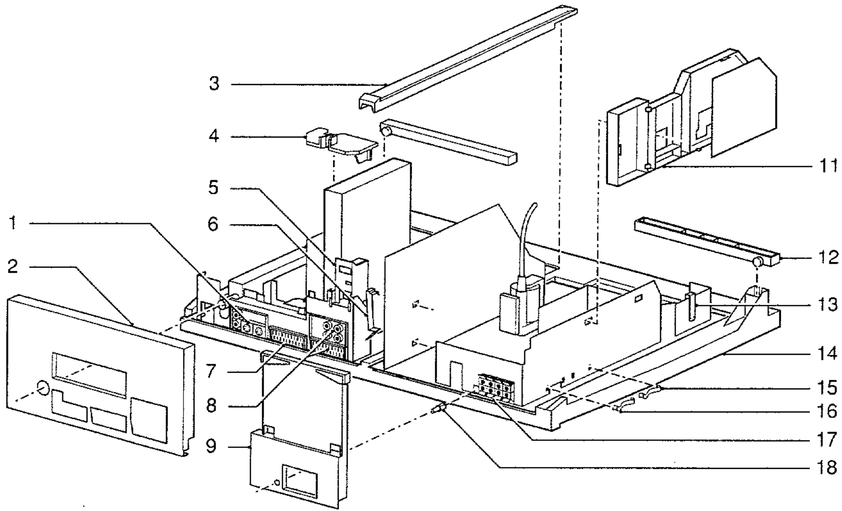
10. Exploded view & Mechanical parts list



CL 36532078/014
130593

Mechanical FL1

1	4822 256 91807	Holder for splitter
2	4822 267 41005	Cinch/2 x SVHS connector
2	4822 267 20409	Cinch/1 x SVHS connector
3	4822 432 93132	SSP cover
3	4822 432 92767	SSP cover -/39
3	4822 432 93138	SSP cover FL1.17
4	4822 404 31196	Bracket second tuner PIP
5	4822 404 31197	Spacer
6	4822 218 21084	Keyboard
7	4822 267 41004	Headph./cinch/SVHS connector
7	4822 267 20408	Headph./cinch
8	4822 267 20427	Euro/4 x cinch connector
8	4822 267 20411	Euro/2 x cinch connector
9	4822 267 51058	Euroconnector
10	4822 492 70789	Spring
11	4822 290 60812	Connector for LS
12	4822 267 20417	Socket for LS
13	4822 410 25036	Mute knob
14	4822 432 92743	LSP cover Sq, Cl
14	4822 432 92991	LSP cover FL1.17
15	4822 492 62067	Spring
16	4822 466 93027	Protection plate
17	4822 404 31167	Bracket for mains cord
18	4822 466 93002	LED block
18	4822 130 91183	LED block FL1.17
19	4822 404 31202	Bracket for DAF panel
20	4822 492 70143	Spring
21	4822 492 70788	Spring
22	4822 321 10736	Mains cord



CL 36532078/015
130593

Mechanical FL2/4.XX

	4822 267 41005	Cinch/2 x SVHS connector FL2
	4822 267 20409	Cinch/1 x SVHS connector FL4
	4822 466 93211	SSP cover FL2
	4822 466 93231	SSP cover FL4
	4822 417 50287	Bracket
	4822 404 31196	Bracket for second tuner PIP
	4822 256 91807	Holder for splitter
	4822 492 70789	Spring
	4822 267 51058	Euroconnector
	4822 267 20427	Euro/4 x cinch connector
	4822 267 20411	Euro/2 x cinch connector FL2
	4822 267 20457	Euro/2 x cinch connector FL4
	4822 432 92839	LSP cover FL2.24 Cl, Ex
	4822 432 92695	LSP cover FL2.26 Cl
	4822 432 92991	LSP cover FL4
1	4822 464 70616	Bracket for mains filter FL2.24
1	4822 464 70638	Bracket for mains filter FL2.26/FL4
2	4822 462 42016	Service stand
13	4822 492 62076	Spring
14	4822 464 70615	Frame for chassis FL2
14	4822 464 70639	Frame for chassis FL4
15	4822 492 70143	Spring
16	4822 492 70788	Spring
17	4822 290 60812	Connector for LS
18	4822 410 25036	Mute knob
	4822 404 31344	bracket 3th scart panel

Spa

Large
FLx.24

	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
▲	482
	482
	482
	482

Various

	482
	532
	482
	482
	482
	482
	482
	482
	482
	482
	482
	482
1010	4822
1026	4822

⊣⊢

2001	4822
2002	4822
2003	4822
2007	4822
2008	4822
2009	4822
2010	5322
2011	4822
2012	4822
2013	4822
2014	5322
2015▲	4822
2016▲	4822
2018	4822
2019	4822
2020	4822
2021	4822
2022	4822
2023	5322
2024	5322
2025	4822
2026	4822
2027	4822
2028	4822
2029	4822
2030	4822
2031	4822
2032	4822
2033	4822
2034▲	4822
2035	4822
2036	4822
2037	4822
2038	4822
2039	4822
2040	4822
2041	4822
2043	4822
2045	4822
2046	4822
2047	4822
2049	4822
2050	4822
2051	4822
2052	4822
2053	4822
2056	4822
2057	4822
2058	4822

Spare parts list / Stükliste / Liste des pièces

Large signal panel FLx.24 [A] [B] [G]

	4822 265 30525	2P male white
	4822 265 20541	2P male black
	4822 265 31099	6P female blue
	4822 267 51334	10P female blue
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 265 40442	10P male
	4822 265 20509	2P male
	4822 267 41146	6P male black
	4822 267 40985	6P male eco
	4822 264 40207	3P male
	4822 267 41018	2P male red
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 31098	6P male blue
	4822 265 41367	10P male blue
▲	4822 265 30389	2P male
	4822 267 41142	3P male eco
	4822 267 30871	2P female
	4822 266 20163	2P female black

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic.P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
	4822 290 60812	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 310 31932	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 11105	Focus cable
	4822 320 20213	Vg2 cable
1010	4822 212 23892	NTSC ASSY
1026	4822 102 90038	DAF unit 32"

⊣⊢

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034▲	4822 122 32442	10nF 50V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 122 31765	100pF 2% 63V
2050	4822 124 42362	33µF 20% 16V
2051	4822 124 42362	33µF 20% 16V
2052	4822 124 42362	33µF 20% 16V
2053	4822 124 42362	33µF 20% 16V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 32142	270pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2240	4822 124 42183	1000µF 20% 63V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80507	330µF 20%
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V
2330	4822 122 31784	4,7nF 10% 50V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	4822 124 40272	33µF 20% 16V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402▲	4822 124 40246	4,7µF 20% 63V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	5322 122 31647	1nF 10% 63V
2408	4822 122 31172	180pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412▲	4822 122 31173	220pF 10% 500V
2413	4822 122 31768	180pF 2% 63V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	5322 122 31647	1nF 10% 63V
2452	4822 124 41716	220µF 20% 35V
2453	4822 122 33496	100nF 10% 63V
2455	4822 122 31746	1nF 2% 63V
2456	4822 124 80457	3300µF 20% 35V
2457	4822 124 42249	1µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 33496	100nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 23495	10µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11823	270pF 10% 500V
2504	4822 126 13152	820pF 10% 3kV
2504	4822 126 13157	2,2nF 10% 3kV
2507	4822 121 42408	220nF 5% 63V
2509	4822 122 31174	2,7nF 10% 500V
2510	4822 126 12083	1nF 10% 500
2511	4822 124 41739	47µF 20% 160V
2512	4822 124 40248	10µF 20% 63V
2513	4822 124 40248	10µF 20% 63V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2521▲	4822 121 43397	680nF 5% 250V
2522▲	4822 121 43397	680nF 5% 250V
2523▲	4822 122 33382	9,1nF 5% 2kV
2523	4822 121 70435	10nF 5% 2kV
2524	4822 121 70005	15nF 5% 630V
2524	4822 121 70397	12nF 5% 630V
2525	4822 124 80604	47µF 20% 50V
2526	4822 126 11502	470pF 10% 500V
2527	4822 121 70005	15nF 5% 630V
2529	4822 124 23491	0,47µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 12761	1.5nF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 12761	1.5nF 10% 500V
2537	4822 124 80037	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2544▲	4822 124 41525	100µF 20% 25V
2545	4822 126 12941	10pF 10% 100V
2546	4822 126 11725	1µF 20% 5V
2547	4822 122 32566	3,9nF 10% 63V
2548	4822 126 11725	1µF 20% 5V
2551	4822 124 40195	150µF 20% 16V
2600▲	4822 124 40246	4,7µF 20% 63V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2606	4822 122 32542	47nF 10% 63V
2606	4822 122 32541	27nF 10% 63V
2609	4822 121 51243	56nF 5% 50V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 80603	4,7µF 20% 50V
2612	4822 124 80603	4,7µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2615	4822 122 33498	2,7nF 10% 63V
2801	4822 122 32153	1,8nF 10% 63V
2805	4822 124 40248	10µF 20% 63V
2806	4822 122 31797	22nF 10% 63V

─▭─

3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52299	7k5 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069	4822 051 10622	6k2 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 051 10223	22k 2% 0,25W
3074▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 053 21825	8M2 5% 0,5W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3235▲	4822 052 10108	1Ω 5% 0,33W
3238	4822 116 52268	300k 5% 0,5W
3238	4822 116 52234	100k 5% 0,5W
3239	4822 116 52268	300k 5% 0,5W
3239	4822 116 52234	100k 5% 0,5W
3240	4822 116 52268	300k 5% 0,5W
3240	4822 116 52234	100k 5% 0,5W
3241	4822 113 80635	3,3Ω 10% 5W
3242	4822 051 10122	1k2 2% 0,25W
3243	4822 116 52226	560Ω 5% 0,5W
3244	4822 051 10151	150Ω 2% 0,25W
3245	4822 116 52226	560Ω 5% 0,5W
3247	4822 051 52202	2k2 1% 0,125W
3248	4822 051 52202	2k2 1% 0,125W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52201	75Ω 5% 0,5W
3251	4822 051 10102	1k 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3255	4822 116 52243	1k5 5% 0,5W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W
3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10751	750Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3373	4822 051 10153	15k 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3387	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52265	270k 5% 0,5W
3410	4822 100 11731	150k 30% lin
3411	4822 051 10204	200k 2% 0,25W
3412	4822 116 52284	47k 5% 0,5W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 52264	27k 5% 0,5W
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10279	27Ω 5% 0,33W
3421	4822 051 10272	2k7 2% 0,25W
3422	4822 101 21195	470k 30% lin
3424	4822 051 10201	200Ω 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3428	4822 051 10333	33k 2% 0,25W
3429	4822 116 52205	1k1 5% 0,5W
3430	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52205	1k1 5% 0,5W
3439	4822 051 10754	750k 2% 0,25W
3440	4822 051 10163	16k 2% 0,25W
3441	4822 116 52293	6k2 5% 0,5W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10223	22k 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3448	4822 116 52233	10k 5% 0,5W
3450	4822 051 10562	5k6 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3453	4822 116 52211	150Ω 5% 0,5W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10154	150k 2% 0,25W

Spare parts list / Stükliste / Liste des pièces

Ω 5% 0,5W
1% 0,125W
1% 0,125W
k 5% 0,5W
5% 0,5W
% 0,25W
k 5% 0,5W
10%
5% 0,5W

Ω 2% 0,25W
Ω 2% 0,25W
10% 5W
% 0,25W
5% 1W
Ω 1% 0,125W
2% 0,25W
Ω 5% 0,5W
5% 1W
2% 0,25W

2% 0,25W
2% 0,25W
Ω 5% 3W
2% 0,25W
5% 0,5W
Ω 2% 0,25W
Ω 2% 0,25W
5% 0,5W
Ω 5% 0,5W
2% 0,25W

2% 0,25W
2% 0,25W
2% 0,25W
5% 0,5W
5% 0,5W
5% 0,5W
2% 0,25W
1% 0,6W
5% 0,5W
1% 0,6W

2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
5% 1W
2% 0,25W
0% lin
2% 0,25W
2% 0,25W

5% 0,5W
2% 0,25W
5% 0,5W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W

2% 0,25W
2% 0,25W
2% 0,25W
30% lin
2% 0,25W
2% 0,25W
5% 0,5W
30% lin
2% 0,25W
5% 0,5W

2% 0,25W
30% lin
5% 0,5W
5% 0,5W
2% 0,25W
5% 0,33W
2% 0,25W
30% lin
2% 0,25W
2% 0,25W

2% 0,25W
5% 0,5W
5% 0,5W
5% 0,5W
2% 0,25W
% 0,25W
% 0,5W
% 0,25W
% 0,25W
% 0,25W

% 0,5W
% 0,25W
% 0,25W
5% 0,33W
5% 0,5W
2% 0,25W
2% 0,25W

3457	4822 051 10912	9k1 2% 0,25W
3458▲	4822 116 80676	1Ω5 5% 0,5W
3459▲	4822 116 80676	1Ω5 5% 0,5W
3460▲	4822 053 11331	330Ω 5% 2W
3460▲	4822 053 11271	270Ω 5% 2W
3461	4822 116 80176	1Ω 5% 0,5W
3462	4822 116 80176	1Ω 5% 0,5W
3464▲	4822 053 10102	1k 5% 1W
3465	4822 051 10681	680Ω 2% 0,25W
3467	4822 100 20166	10k 30% lin
3468	4822 053 12331	330Ω 5% 3W
3473	4822 051 10152	1k5 2% 0,25W
3479	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3484	4822 051 10224	220k 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3500	4822 116 52224	470Ω 5% 0,5W
3501	4822 116 52274	36k 5% 0,5W
3502	4822 116 52306	9k1 5% 0,5W
3503	4822 116 52306	9k1 5% 0,5W
3504	4822 116 52176	10Ω 5% 0,5W
3505	4822 116 52229	750Ω 5% 0,5W
3506	4822 053 11108	1Ω 5% 2W
3507	4822 116 52184	18Ω 5% 0,5W
3508▲	4822 116 60523	2k2
3508	4822 116 82773	1k8 10% 5W
3509	4822 053 20104	100k 5% 0,25W
3511▲	4822 052 10128	1Ω2 5% 0,33W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% lin
3515▲	4822 052 10108	1Ω 5% 0,33W
3516▲	4822 052 10108	1Ω 5% 0,33W
3517▲	4822 052 11108	1Ω 5% 0,5W
3520▲	4822 052 11102	1k 5% 0,5W
3521▲	4822 052 11102	1k 5% 0,5W
3522	4822 117 10285	6,8Ω 5% 3W
3523	4822 116 52244	15k 5% 0,5W
3524	4822 116 52176	10Ω 5% 0,5W
3525	4822 116 52207	1k2 5% 0,5W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 050 11002	1k 1% 0,4W
3528	4822 116 52207	1k2 5% 0,5W
3529	4822 051 10204	200k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3531	4822 116 52274	36k 5% 0,5W
3532▲	4822 050 23301	330Ω 1% 0,6W
3533▲	4822 050 23301	330Ω 1% 0,6W
3534▲	4822 052 10128	1Ω2 5% 0,33W
3535▲	4822 052 10128	1Ω2 5% 0,33W
3536▲	4822 053 10331	330Ω 5% 1W
3538	4822 050 21303	13k 1% 0,6W
3539▲	4822 052 10108	1Ω 5% 0,33W
3540	4822 116 52267	30k 5% 0,5W
3541▲	4822 116 52272	330k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3543	4822 051 20222	2k2 5% 0,1W
3543	4822 051 10332	3k3 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3546	4822 051 10104	100k 2% 0,25W
3547	4822 051 10109	10Ω 2% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 051 10132	1k3 2% 0,25W
3551	4822 051 10151	150Ω 2% 0,25W
3552	4822 116 52207	1k2 5% 0,5W
3553	4822 116 52207	1k2 5% 0,5W
3555	4822 113 80592	150Ω 10% 5W
3556	4822 053 11108	1Ω 5% 2W
3558	4822 051 10109	10Ω 2% 0,25W
3559	4822 051 10392	3k9 2% 0,25W
3560	4822 113 80586	6Ω8 10% 5W
3561	4822 051 58201	820Ω 1% 0,125W
3562	4822 051 52202	2k2 1% 0,125W
3563	4822 116 52175	100Ω 5% 0,5W
3564	4822 051 10569	56Ω 2% 0,25W
3570	4822 051 10272	2k7 2% 0,25W
3573	4822 116 52244	15k 5% 0,5W
3601	4822 051 10104	100k 2% 0,25W
3602	4822 100 11213	22k 30% lin
3603	4822 051 10163	16k 2% 0,25W
3603	4822 051 10123	12k 2% 0,25W
3604	4822 051 10514	510k 2% 0,25W
3605▲	4822 051 10103	10k 2% 0,25W
3606	4822 051 20183	18k 5% 0,1W
3607	4822 100 11213	22k 30%lin 0,1W
3608▲	4822 051 10103	10k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610▲	4822 051 10472	4k7 2% 0,25W
3611▲	4822 116 52256	2k2 5% 0,5W
3612	4822 116 52233	10k 5% 0,5W
3613	4822 051 10202	2k 2% 0,25W
3614	4822 116 52249	1k8 5% 0,5W

3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10683	68k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10682	6k8 2% 0,25W
3621	4822 051 10114	110k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3623	4822 116 80176	1Ω 5% 0,5W
3626	4822 130 40938	BC548
3627	4822 051 10202	2k 2% 0,25W
3628	4822 051 10473	47k 2% 0,25W
3629	4822 051 10474	470k 2% 0,25W
3630▲	4822 051 10103	10k 2% 0,25W
3631	4822 116 52297	68k 5% 0,5W
3632	4822 051 10134	130k 2% 0,25W
3633	4822 051 10271	270Ω 2% 0,25W
3634	4822 051 10473	47k 2% 0,25W
3650	4822 051 20183	18k 5% 0,1W
3651	4822 051 10102	1k 2% 0,25W
3652	4822 051 10822	8k2 2% 0,25W
3653	4822 051 10104	100k 2% 0,25W
3653	4822 051 20183	18k 5% 0,1W
3654	4822 051 20222	2k2 5% 0,1W
3655	4822 051 20222	2k2 5% 0,1W
3656▲	4822 051 10103	10k 2% 0,25W
3800	4822 116 52289	5k6 5% 0,5W
3801	4822 051 10184	180k 2% 0,25W
3802	4822 051 10104	100k 2% 0,25W
3803	4822 051 20222	2k2 5% 0,1W
3804▲	4822 051 10103	10k 2% 0,25W
3805▲	4822 111 41424	22Ω 5% 0,3W
3806	4822 051 20222	2k2 5% 0,1W
3807▲	4822 116 52256	2k2 5% 0,5W
3809	4822 051 10104	100k 2% 0,25W
3810	4822 116 52176	10Ω 5% 0,5W
3811▲	4822 116 52215	220Ω 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W
9459▲	4822 116 52215	220Ω 5% 0,5W
9625	4822 053 20106	10M 5% 0,25W

—∿—

5230▲	4822 148 81192	SOPS transf.
5237	4822 526 10494	Ferrite bead
5241	4822 157 62412	27μH 10%
5255▲	4822 148 81225	μSOPS transf.
5260	4822 526 10494	Ferrite bead
5308	4822 157 70001	180μH 10%
5310	4822 157 63301	1μH 15%
5381▲	4822 157 52265	100μH 10%
5503▲	4822 157 63252	Line driver
5505	4822 157 51588	0,82μH 20%
5506	4822 157 51588	0,82μH 20%
5507	4822 157 63506	0,09μH
5510	4822 157 62886	33μH 10%
5511	4822 157 52407	39μH 7,5%
5520	4822 157 63846	linearity corr. 28"
5520▲	4822 156 50091	linearity corr. 32"
5521	4822 157 70871	Bridge coil 28"
5521	4822 157 70869	Bridge coil 32"
5524	4822 526 10494	Ferrite bead
5525	4822 157 52392	27μH 10%
5526▲	4822 157 63513	E/W coil
5527	4822 157 70472	0,56μH 20%
5534	4822 158 10551	27μH 7,5%
5543	4822 157 62412	27μH 10%
5555	4822 140 10476	L.O.T. 28"
5555▲	4822 140 10432	L.O.T. 32"

—▶|—

6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6017	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6220	4822 130 33887	GP15J-16
6221	4822 130 33887	GP15J-16
6230	4822 130 33529	BY229F-200
6232	4822 130 33529	BY229F-200
6235	4822 130 81104	MA689
6237▲	4822 130 41602	BYW95C/20
6238▲	4822 130 41602	BYW95C/20
6246	4822 130 83576	BZV55-B6V8
6251	4822 130 81512	BZV55-C6V2
6260	4822 130 80446	BAS32L
6262	4822 130 83121	BYD73C
6266	4822 130 34278	BZX79-F6V8
6272▲	4822 130 34173	BZX55-B5V6
6280▲	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 81637	PMLL4148L
6305	4822 130 82334	BAS85
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6314	4822 130 80446	LL4148
6315	4822 130 80446	LL4148
6318	4822 130 83086	LL4150
6319	5322 130 34898	BZD23-C5V6
6331▲	4822 130 30621	1N4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351▲	4822 130 30621	1N4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 82345	LLZ-C22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 80922	LLZ-C18
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6422	4822 130 80446	LL4148
6440▲	4822 130 30621	1N4148
6441	4822 130 80446	LL4148
6451▲	4822 130 61219	BZX79-C10
6452	4822 130 42488	BYD33D
6480	4822 130 31554	BZX79-C4V3
6506▲	5322 130 32184	BYV27-50
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6534	4822 130 82512	BYV29F-400
6536	4822 130 82758	BYV29F-300
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 83004	BZX79-A3V9
6570	4822 130 80922	LLZ-C18
6611	4822 130 81027	LLZ-C11
6633	4822 130 81512	LLZ-C6V2
6650	4822 130 82583	LLZ-C9V1
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148
6651	4822 130 80446	LL4148
6801	4822 130 80446	LL4148
6802	5322 130 34337	BAV99
6803	4822 130 80446	LL4148
6804	4822 130 80446	LL4148
6811	4822 130 34281	BZX79-B15

⊗ ▭

7000	4822 209 73311	TDA1521Q/N4
7000	4822 130 63427	BD534FI
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63913	TDA1521AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63366	ON4802
7242	4822 130 40948	BC548A
7243	4822 130 40948	BC548A
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7268	4822 130 63426	BD533FI
7270	4822 130 40823	BD135
7273	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 40982	BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7360	4822 130 42513	BC858C
7369	5322 130 42755	BC847C
7370	5322 130 42136	BC848C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7417	4822 130 42513	BC858C
7443	4822 130 61207	BC848
7444	4822 130 61207	BC848
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858A
7469	4822 130 44283	BC636
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7506	4822 130 62843	2SC4288A
7512▲	4822 130 41344	BC337-40
7513	4822 130 41327	BC327-40
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63427	BD534FI
7551	4822 130 62846	ON4590
7552	4822 130 62846	ON4590
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 62845	BDT60F
7616	5322 130 42136	BC848C
7618	5322 130 42136	BC848C
7650	5322 130 42136	BC848C
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
7800	5322 209 10576	4053B
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848

Large signal panel FLx.26/.27 [A] [B] [G]

	4822 266 30359	6P female
	4822 265 41328	10P female
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 264 40207	3P male
	4822 267 41142	3P
	4822 267 41146	6P
	4822 267 41018	2P red
▲	4822 265 30389	2P male
▲	4822 265 40596	2P male
	4822 265 20509	2P male grey
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 30953	6P male
	4822 265 41326	10P male
	4822 265 30984	5P female

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
▲	4822 276 12998	Mains switch
▲	4822 256 30496	Fuse holder
	4822 290 61196	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 267 20417	Socket for squeeters
	4822 310 31993	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 20191	Focus cable
1010	4822 212 30195	NTSC panel
1200▲	4822 070 33151	Fuse 3,15A

—||—

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V

Spare parts list / Stükliste / Liste des pièces

2004	4822 122 32142	270pF 2% 63V
2005	4822 122 32142	270pF 2% 63V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 31775	680pF 2% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 11966	100pF 10% 500V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034	4822 122 32862	10nF 80% 50V
2035	4822 122 31775	680pF 2% 63V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 051 10008	0Ω 5% 0,25W
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 051 10008	0Ω 5% 0,25W
2049	4822 122 31965	220pF 2% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051▲	4822 124 40433	47µF 20% 25V
2052▲	4822 124 40433	47µF 20% 25V
2053▲	4822 124 40433	47µF 20% 25V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 31773	560pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2075	4822 122 31797	22nF 10% 63V
2076	4822 122 31797	22nF 10% 63V
2077	4822 122 31797	22nF 10% 63V
2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V
2210▲	4822 126 11141	2,2nF 10% 1kV
2211▲	4822 126 11141	2,2nF 10% 1kV
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2230	4822 122 32856	8,2nF 10% 63V
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2236	4822 124 80215	1000µF 20% 35V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2241	5322 124 41431	22µF 20% 35V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2256	5322 122 31647	1nF 10% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	4822 124 40255	100µF 20% 63V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80605	330µF 20% 50V
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V

2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	5322 124 41378	33µF 20% 35V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 31759	18nF
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	4822 122 32153	1,8nF 10% 63V
2408	4822 126 11823	270pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412	4822 126 11966	100pF 10% 500V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	4822 122 31746	1nF 2% 63V
2452	4822 124 41716	220µF 20% 35V
2455	4822 122 31746	1nF 2% 63V
2455	4822 122 31771	390pF 2% 63V
2456	4822 124 41184	470µF 20% 50V
2456	4822 124 41747	680µF 20% 35V
2456	5322 124 41468	1000µF 20% 40V
2457	4822 124 42249	1µF 10% 50V
2457	4822 124 42251	1,5µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 32891	68nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 80214	22µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11157	470pF 10% 500V
2504	4822 122 20054	270pF 10% 2kV
2504▲	4822 126 12239	560pF 10% 2kV
2505	4822 122 20054	270pF 10% 2kV
2505▲	4822 126 11254	330pF 10% 2kV
2505▲	4822 126 12269	680pF 10% 2kV
2507	4822 121 42408	220nF 5% 63V
2509▲	4822 126 12273	1200pF 10% 2kV
2511	4822 121 43368	47µF 160V
2512	4822 124 41596	22µF 20% 50V
2513	4822 124 41596	22µF 20% 50V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2519	4822 124 80341	1µF 20% 160V
2520▲	4822 121 51527	390nF 5% 250V
2520▲	4822 121 51528	470nF 5% 250V
2521	4822 121 51563	560nF 5% 250V
2523	4822 121 70398	11nF 5% 2kV
2523	4822 121 70415	8,2nF 5% 1,6kV
2524	4822 121 43915	27nF 5% 630V
2524	4822 121 70005	15nF 5% 630V
2525▲	4822 121 43397	680nF 5% 250V
2528	4822 121 70397	12nF 5% 630V
2529	4822 124 22467	2,2µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 11502	470pF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 11501	1,5nF 10% 500V
2537	4822 124 40201	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2545	4822 122 31175	1nF 10% 500V
2546	4822 122 33496	100nF 10% 63V
2547	4822 122 33498	2,7nF 10% 63V
2552	4822 122 33496	100nF 10% 63V
2553	4822 122 33496	100nF 10% 63V
2554▲	4822 124 41525	100µF 20% 25V
2555	4822 122 32891	68nF 10% 63V
2556	4822 124 41584	100µF 20% 10V
2600▲	4822 124 40246	4,7µF 20% 63V
2601	4822 122 31797	22nF 10% 63V
2603	4822 122 32891	68nF 10% 63V
2603	4822 122 32927	220nF 20% 50V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31644	2,2nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2605	4822 122 33498	2,7nF 10% 63V
2606	4822 122 33496	100nF 10% 63V

2609	4822 121 43396	120nF 5% 63V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 41576	2,2µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2626	4822 122 32566	3,9nF 10% 63V

-□-

3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10153	15k 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3015▲	4822 052 10828	8Ω2 5% 0,33W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3019▲	4822 052 10828	8Ω2 5% 0,33W
3020▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52296	6k8 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069▲	4822 051 10472	4k7 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 116 52257	22k 5% 0,5W
3074▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 053 21475	4M7 5% 0,5W
3202▲	4822 053 21825	8M2 5% 0,5W
3203	4822 111 41573	470Ω 10% 0,5W
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3230▲	4822 052 10108	1Ω 5% 0,33W
3234	4822 100 11348	1k 30% lin
3236	4822 051 10681	680Ω 2% 0,25W
3237	4822 051 10101	100Ω 2% 0,25W
3239	4822 116 52297	68k 5% 0,5W
3240	4822 116 52297	68k 5% 0,5W
3241	4822 113 80602	5,6Ω 10% 5W
3243▲	4822 053 10221	220Ω 5% 1W
3247	4822 051 10122	1k2 2% 0,25W
3248	4822 051 10562	5k6 2% 0,25W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52195	47Ω 5% 0,5W
3251	4822 051 10471	470Ω 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3254▲	4822 051 10472	4k7 2% 0,25W
3255	4822 116 52243	1k5 5% 0,5W
3256	4822 051 10471	470Ω 2% 0,25W
3257	4822 051 10152	1k5 2% 0,25W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W

3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10681	680Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3385	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3404	4822 051 10332	3k3 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52292	560k 5% 0,5W
3410	4822 100 11213	22k 30% lin
3411	4822 051 10104	100k 2% 0,25W
3411	4822 051 10124	120k 2% 0,25W
3411	4822 051 10753	75k 2% 0,25W
3413	4822 051 10101	100Ω 2% 0,25W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 81223	1M2 5%
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10229	22Ω 5% 0,33W
3420	4822 050 23905	3M9 1% 0,6W
3420	4822 116 52305	820k 5% 0,5W
3421	4822 116 52263	2k7 5% 0,5W
3422	4822 116 81223	1M2 5%
3422	4822 116 81783	1M5 5% 0,5W
3422	4822 116 83029	1M3 5% 0,5W
3423	4822 116 52235	1M 5% 0,5W
3423	4822 116 52305	820k 5% 0,5W
3423	4822 117 10612	1M1 5%
3424	4822 051 10221	220Ω 2% 0,25W
3425	4822 051 10124	120k 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3427	4822 051 10474	470k 2% 0,25W
3428	4822 116 52271	33k 5% 0,5W
3429	4822 050 11002	1k 1% 0,4W
3430▲	4822 051 10103	10k 2% 0,25W
3431	4822 116 52271	33k 5% 0,5W
3437	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52247	16k 5% 0,5W
3440	4822 051 20222	2k2 5% 0,1W
3441	4822 051 10622	6k2 2% 0,25W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10112	1k1 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3445	4822 051 10223	22k 2% 0,25W
3446	4822 051 10273	27k 2% 0,25W
3450	4822 051 10432	4k3 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10124	120k 2% 0,25W
3456	4822 051 10134	130k 2% 0,25W
3456	4822 051 51204	120k 1% 0,125W
3457	4822 051 10822	8k2 2% 0,25W
3457	4822 051 10912	9k1 2% 0,25W
3457	4822 051 58202	8k2 1% 0,125W
3458▲	4822 116 80676	1Ω5 5% 0,5W

3459▲	4822 116 8
3460▲	4822 053 1
3461	4822 116 8
3462	4822 116 8
3463	4822 116 8
3465	4822 051 1
3466	4822 116 5
3466	4822 116 5
3466	4822 116 5
3467	4822 100 2
3468	4822 053 1
3469	4822 050 1
3469	4822 116 5
3469	4822 116 5
3471	4822 051 1
3471	4822 051 2
3473	4822 116 5
3479	4822 051 1
3480	4822 116 5
3481	4822 051 1
3482	4822 051 1
3483	4822 051 1
3484	4822 051 1
3485	4822 051 1
3495▲	4822 053 1
3500	4822 116 5
3501	4822 051 1
3502	4822 116
3503	4822 116
3504	4822 053
3504	4822 053
3505	4822 116
3505	4822 116
3506	4822 053
3506	4822 053
3507	4822 116
3507	4822 116
3508	4822 116
3508	4822 116
3509	4822 053
3510	4822 113
3512	4822 051
3513	4822 100
3514	4822 116
3515▲	4822 052
3516▲	4822 052
3517▲	4822 052
3518	4822 116
3519	4822 116
3520▲	4822 052
3521▲	4822 052
3522▲	4822 052
3524	4822 116
3525	4822 116
3526	4822 053
3527	4822 051
3528	4822 050
3528	4822 116
3528	4822 116
3528	4822 116
3529	4822 051
3530	4822 051
3531	4822 116
3532▲	4822 050
3533▲	4822 050
3534▲	4822 052
3535▲	4822 052
3536	4822 116
3537	4822 116
3538	4822 050
3538	4822 050
3540	4822 116
3541	4822 116
3542	4822 051
3543	4822 051
3544	4822 051
3545	4822 116
3547	4822 051
3548	4822 051
3549	4822 051
3550	4822 05
3553▲	4822 05
3554	4822 05
3555	4822 05
3556	4822 05
3557	4822 05
3558	4822 10
3559	4822 05
3560▲	4822 05
3561	4822 05
3562	4822 05
3563	4822 05
3600▲	4822 05
3600	4822 05
3600	4822 05
3601	4822 05

% 0,25W
5% 3W
% 0,25W
5% 0,5W
2% 0,25W
2% 0,25W
5% 0,5W
5% 0,5W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
% 0,5W
% 0,5W
5% 0,5W
2% 0,25W
1% 0,6W
5% 0,5W
% 0,6W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
5% 1W
% 0,25W
% lin
2% 0,25W
% 0,5W
% 0,25W
5% 0,5W
2% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
2% 0,25W
% 0,25W
% 0,25W
% 0,25W
0% lin
2% 0,25W
% 0,25W
5% 0,5W
0% lin
2% 0,25W
2% 0,25W
% 0,25W
2% 0,25W
2% 0,25W
0% lin
5%
% 0,5W
2% 0,25W
5% 0,33W
1% 0,6W
5% 0,5W
% 0,5W
5%
5% 0,5W
5% 0,5W
% 0,5W
5% 0,5W
5%
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
% 0,5W
0,4W
% 0,25W
% 0,5W
5% 0,5W
5% 0,5W
% 0,5W
% 0,1W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
5% 0,33W
2% 0,25W
2% 0,25W
2% 0,25W
1% 0,125W
% 0,25W
% 0,25W
% 0,125W
% 0,5W

3459▲	4822 116 80676	1Ω5 5% 0,5W
3460▲	4822 053 10271	270Ω 5% 1W
3461	4822 116 80176	1Ω 5% 0,5W
3462	4822 116 80176	1Ω 5% 0,5W
3463	4822 116 80176	1Ω 5% 0,5W
3465	4822 051 10681	680Ω 2% 0,25W
3466	4822 116 52243	1k5 5% 0,5W
3466	4822 116 52279	4k3 5% 0,5W
3466	4822 116 52286	5k1 5% 0,5W
3467	4822 100 20166	10k 30% lin
3468	4822 053 12221	220Ω 5% 3W
3469	4822 050 11002	1k 1% 0,4W
3469	4822 116 52279	4k3 5% 0,5W
3469	4822 116 52286	5k1 5% 0,5W
3471	4822 051 10182	1k8 2% 0,25W
3471	4822 051 20222	2k2 5% 0,1W
3473	4822 116 52253	2k 5% 0,5W
3479	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3483	4822 051 10563	56k 2% 0,25W
3484	4822 051 10223	22k 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3495▲	4822 053 11271	270Ω 5% 2W
3500	4822 116 52224	470Ω 5% 0,5W
3501	4822 051 10392	3k9 2% 0,25W
3502	4822 116 52299	7k5 5% 0,5W
3503	4822 116 52299	7k5 5% 0,5W
3504	4822 053 11108	1Ω 5% 2W
3504	4822 053 11128	1Ω2 5% 2W
3505	4822 116 52191	33Ω 5% 0,5W
3505	4822 116 52195	47Ω 5% 0,5W
3506	4822 053 11108	1Ω 5% 2W
3506	4822 053 11128	1Ω2 5% 2W
3507	4822 116 52191	33Ω 5% 0,5W
3507	4822 116 52195	47Ω 5% 0,5W
3508	4822 116 82773	1k8 10% 5W
3508	4822 116 83003	1k5 10% 5W
3509	4822 053 21154	150k 5% 0,5W
3510	4822 113 80592	150Ω 10% 5W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% lin
3514	4822 116 52189	30Ω 5% 0,5W
3515▲	4822 052 10108	1Ω 5% 0,33W
3516▲	4822 052 10108	1Ω 5% 0,33W
3517▲	4822 052 11108	1Ω 5% 0,5W
3518	4822 116 52267	30k 5% 0,5W
3519	4822 116 52267	30k 5% 0,5W
3520▲	4822 052 11471	470Ω 5% 0,5W
3521▲	4822 052 11471	470Ω 5% 0,5W
3522▲	4822 052 11102	1k 5% 0,5W
3524	4822 116 81753	4Ω7 5% 0,5W
3525	4822 116 52207	1k2 5% 0,5W
3526	4822 053 10688	6Ω8 5% 1W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 050 11002	1k 1% 0,4W
3528	4822 116 52207	1k2 5% 0,5W
3528	4822 116 52229	750Ω 5% 0,5W
3528	4822 116 52243	1k5 5% 0,5W
3529	4822 051 10104	100k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3531	4822 116 52191	33Ω 5% 0,5W
3532▲	4822 050 23301	330Ω 1% 0,6W
3533▲	4822 050 23301	330Ω 1% 0,6W
3534▲	4822 052 11278	2Ω7 5% 0,5W
3535▲	4822 052 11278	2Ω7 5% 0,5W
3536	4822 116 52221	360Ω 5% 0,5W
3537	4822 116 52189	30Ω 5% 0,5W
3538	4822 050 21203	12k 1% 0,6W
3538	4822 050 21303	13k 1% 0,6W
3540	4822 116 52267	30k 5% 0,5W
3541	4822 116 52285	470k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3543	4822 051 10152	1k5 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3547	4822 051 10518	5Ω1 5% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 051 10102	1k 2% 0,25W
3553▲	4822 053 11479	47Ω 5% 2W
3554	4822 051 10008	0Ω 5% 0,25W
3555	4822 051 10681	680Ω 2% 0,25W
3556	4822 051 10008	0Ω 5% 0,25W
3557	4822 051 10182	1k8 2% 0,25W
3558	4822 100 11348	1k 30% lin
3559	4822 051 10182	1k8 2% 0,25W
3560▲	4822 052 10108	1Ω 5% 0,33W
3561	4822 051 10152	1k5 2% 0,25W
3562	4822 051 51102	1k1 1% 0,125W
3563	4822 051 10122	1k2 2% 0,25W
3600▲	4822 051 10472	4k7 2% 0,25W
3600	4822 051 10682	6k8 2% 0,25W
3600	4822 051 10752	7k5 2% 0,25W
3601	4822 051 10104	100k 2% 0,25W
3601	4822 051 10154	150k 2% 0,25W
3602	4822 100 11213	22k 30% lin
3602	4822 100 20166	10k 30% lin
3603▲	4822 051 10103	10k 2% 0,25W
3603	4822 051 10123	12k 2% 0,25W
3603	4822 051 10153	15k 2% 0,25W
3603	4822 051 10203	20k 2% 0,25W
3603	4822 051 10622	6k2 2% 0,25W
3604	4822 051 10104	100k 2% 0,25W
3604	4822 051 10134	130k 2% 0,25W
3604	4822 051 10184	180k 2% 0,25W
3605▲	4822 051 10103	10k 2% 0,25W
3605	4822 051 10133	13k 2% 0,25W
3605	4822 051 10243	24k 2% 0,25W
3606	4822 051 10153	15k 2% 0,25W
3606	4822 051 10223	22k 2% 0,25W
3606	4822 051 10333	33k 2% 0,25W
3607	4822 100 11213	22k 30% lin
3608	4822 051 10102	1k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610▲	4822 051 10472	4k7 2% 0,25W
3611	4822 051 20222	2k2 5% 0,1W
3614	4822 116 52243	1k5 5% 0,5W
3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10683	68k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10622	6k2 2% 0,25W
3621	4822 051 10164	160k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3623	4822 116 80176	1Ω 5% 0,5W
3624	4822 116 52184	18Ω 5% 0,5W
3625	4822 116 52184	18Ω 5% 0,5W
3626	4822 116 52267	30k 5% 0,5W
3627▲	4822 051 10103	10k 2% 0,25W
3628	4822 116 52284	47k 5% 0,5W
3629	4822 051 10224	220k 2% 0,25W
3630	4822 051 10104	100k 2% 0,25W
3631	4822 051 10182	1k8 2% 0,25W
3632	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10153	15k 2% 0,25W
3633	4822 051 10204	200k 2% 0,25W
3633	4822 051 10244	240k 2% 0,25W
3633	4822 051 10683	68k 2% 0,25W
3634	4822 051 10473	47k 2% 0,25W
3650	4822 051 20183	18k 5% 0,1W
3651	4822 051 10102	1k 2% 0,25W
3652	4822 051 10822	8k2 2% 0,25W
3653	4822 051 10104	100k 2% 0,25W
3654	4822 051 20222	2k2 5% 0,1W
3655	4822 051 20222	2k2 5% 0,1W
3656▲	4822 051 10103	10k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W
9406▲	4822 116 52283	4K7 5% 0,5W
9406	4822 116 52296	6K8 5% 0,5W
9459▲	4822 116 52215	220E 5% 0,5W

〰

5204▲	4822 157 10291	Mainsfilter CU28D5
5230▲	4822 148 81192	SOPS transf.
5231	4822 526 10494	Ferrite bead
5233	4822 526 10494	Ferrite bead
5235	4822 526 10494	Ferrite bead
5237	4822 526 10494	Ferrite bead
5241	4822 157 63696	18μH 10%
5255▲	4822 148 81225	μSOPS transf.
5260	4822 526 10494	Ferrite bead
5262	4822 526 10494	Ferrite bead
5308	4822 157 70001	180μH 10%
5310	4822 157 63301	1μH 15%
5381▲	4822 157 52265	100μH 10%
5503▲	4822 157 63252	Line driver
5504	4822 157 51588	0,82μH 20%
5506	4822 157 51588	0,82μH 20%
5510	4822 157 62412	27μH 10%
5511	4822 157 52407	39μH 7,5%
5514▲	4822 157 70006	DC-shift
5520	4822 156 50107	Linearity corr.
5520	4822 156 50112	Linearity corr. 29"
5521	4822 157 63255	Bridge coil
5521	4822 157 90255	Bridge coil 29"
5524	4822 526 10494	Ferrite bead
5525	4822 157 52392	27μH 10%
5526	4822 157 63253	Choke
5527	4822 157 71097	0,56μH 20%
5534	4822 157 53066	15μH 10%
5543	4822 157 62412	27μH 10%
5548	4822 157 63506	0,09μH
5555▲	4822 140 10443	L.O.T.
5555▲	4822 140 10479	L.O.T. 29"

▶|

6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6017	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6220	4822 130 33887	GP15J-16
6221	4822 130 33887	GP15J-16
6230	4822 130 33529	BY229F-200
6232	4822 130 33529	BY229F-200
6235	4822 130 80982	BYW29F-100
6237▲	4822 130 41602	BYW95C/20
6238▲	4822 130 41602	BYW95C/20
6247	4822 130 83086	LL4150
6251	4822 130 80954	LLZ-C5V6
6254	4822 130 80883	LLZ-C4V7
6255	4822 130 80446	LL4148
6260	4822 130 80446	BAS32L
6262	4822 130 82353	BYD34G
6266	4822 130 34278	BZX79-F6V8
6272▲	4822 130 34173	BZX55-B5V6
6280▲	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 81637	PMLL4148L
6305	4822 130 82334	BAS85
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6314	4822 130 80446	LL4148
6315	4822 130 80446	LL4148
6318	4822 130 83086	LL4150
6319	4822 130 32904	BZV85-C5V6
6331▲	4822 130 30621	1N4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351▲	4822 130 30621	1N4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 80886	LLZ-F22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 81143	LLZ-C20
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6405	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6440	4822 130 80446	LL4148
6441	4822 130 80446	LL4148
6451	5322 130 34834	BZX79-C3V6
6452	4822 130 42488	BYD33D
6465	4822 130 80446	LL4148
6467	4822 130 80446	LL4148
6480	4822 130 31554	BZX79-C4V3
6504	4822 130 42488	BYD33D
6506	4822 130 42488	BYD33D
6507	4822 130 83086	LL4150
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6519▲	4822 130 32896	BYD33M
6520▲	4822 130 32896	BYD33M
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6535	4822 130 82512	BYV29F-400
6536	4822 130 80982	BYW29F-100
6538	4822 130 80954	LLZ-C5V6
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 80954	LLZ-C5V6
6552	4822 130 80922	LLZ-C18
6629	4822 130 80446	LL4148
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148

⊗ ▭

7000	4822 130 63427	BD534FI
7000	4822 209 73311	TDA1521Q/N4
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63913	TDA1521AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63239	ON4827
7242	5322 130 44349	BC635
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7256	5322 130 42012	BC858
7268	4822 130 63558	BD533
7270	4822 130 40823	BD135
7273	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 40982	BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7360	5322 130 42756	BC857C
7369	5322 130 42755	BC847C
7370	5322 130 42755	BC847C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7407	4822 130 61207	BC848
7417	4822 130 42513	BC858C
7444	5322 130 42136	BC848C
7445	5322 130 42136	BC848C
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858
7469	4822 130 44104	BC328
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7504	4822 130 62934	2xON4673
7506	4822 130 62843	2SC4288A
7506	4822 130 62934	2xON4673
7512	4822 130 41109	BD135-16
7513	4822 130 41194	BD136-16
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63427	BD534FI
7551	4822 209 70672	LM358N
7552	5322 130 44349	BC635
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 63508	BD536FI
7616	4822 130 61207	BC848
7618	4822 130 61207	BC848
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C

Small signal panel [C] [D] [F] [H]

4822 255 40901	IC socket 40P
4822 267 41147	7P grey
4822 290 40295	7P male grey
4822 267 41095	5P male
4822 265 41326	10P male hor.
4822 264 40207	3P male
4822 267 51242	10P male vert.
4822 265 31009	3P pinstrip
4822 265 20512	2P green
4822 290 61116	9P pistrip
4822 265 40442	10P male
4822 267 40666	3P male vert.
4822 267 41143	3P male
4822 265 41335	11P
4822 267 41144	3P
4822 265 20509	2P grey
4822 265 30828	5P male vert.
4822 265 31112	5P male hor.
4822 267 41145	5P male
4822 265 31101	3P male hor.
4822 265 40252	7P male
4822 265 40253	8P male

Spare parts list / Stükliste / Liste des pièces

	4822 267 50637	10P female

Various

	4822 267 20427	Socket SCART+4xcinch
	4822 267 20457	Socket SCART+2x cinch
	4822 267 51058	Socket SCART
	4822 267 20409	Socket cinch+SVH S
	4822 267 41005	Socket 2xcinch+2xSVHS
	4822 404 31305	Bracket for black-stretch
	4822 212 30803	µP panel
	4822 900 10506	Software FL2.24/FL2.16/FL 2.26/FL4.17
1160	4822 210 10507	FQ816ME/B
1160	4822 210 10548	FQ916ME/BL
1160	4822 210 10549	FQ916DME/B
1160	4822 210 10556	FQ944/LIF
1160	4822 210 10557	FQ916DMF/IF
1160	4822 210 10558	FQ916MF/LIF
1160	4822 210 10565	FQ916/BL
1248	4822 242 80364	Filter 4,434MHz
1379	4822 242 70736	Crystal 7,159 090 MHz
1380	4822 242 70304	Crystal 8,867 238 MHz
1600	4822 212 30039	SECAM DK panel
1602	4822 242 80276	Crystal 10MHz

⊣⊢

2111	4822 126 11544	22nF 63V
2114	4822 124 22606	68µF 20% 16V
2118	4822 122 31797	22nF 10% 63V
2119	4822 122 31797	22nF 10% 63V
2120	4822 126 11544	22nF 63V
2121	5322 122 31647	1nF 10% 63V
2122▲	4822 122 32442	10nF 50V
2123	4822 126 11804	330nF
2124	4822 126 11544	22nF 63V
2130	4822 122 31797	22nF 10% 63V
2132	4822 122 31797	22nF 10% 63V
2137▲	4822 122 32442	10nF 50V
2138	4822 124 40193	68µF 20% 16V
2160	4822 124 40849	330µF 20% 16V
2161	4822 122 33496	100nF 10% 63V
2162	4822 124 41829	1000µF 20% 6,3V
2163	4822 122 33496	100nF 10% 63V
2164	4822 122 33496	100nF 10% 63V
2165	4822 122 31947	100nF 20% 63V
2166	4822 124 40195	150µF 20% 16V
2168	4822 122 32927	220nF 20% 50V
2169▲	4822 122 32442	10nF 50V
2170	4822 124 40195	150µF 20% 16V
2171	4822 122 32862	10nF 80% 50V
2172▲	4822 124 40433	47µF 20% 25V
2180	4822 122 31947	100nF 20% 63V
2181	4822 126 11544	22nF 63V
2188	4822 126 11544	22nF 63V
2189	4822 126 11544	22nF 63V
2190	4822 121 41856	22nF 5% 250V
2191	4822 126 11544	22nF 63V
2193	4822 122 32153	1,8nF 10% 63V
2194	4822 122 32153	1,8nF 10% 63V
2198	4822 121 41856	22nF 5% 250V
2216	4822 122 32927	220nF 20% 50V
2219	4822 122 32927	220nF 20% 50V
2221	4822 122 31775	680pF 2% 63V
2221	4822 122 32482	22pF 2% 63V
2234	4822 122 32927	220nF 20% 50V
2240	4822 122 32927	220nF 20% 50V
2242▲	4822 124 40196	220µF 20% 16V
2243	4822 121 42408	220nF 5% 63V
2245	4822 122 32927	220nF 20% 50V
2249	4822 122 32862	10nF 80% 50V
2250	4822 051 10102	1k 2% 0,25W
2252	4822 121 42408	220nF 5% 63V
2253	4822 126 11492	220nF 10% 50V
2254	4822 122 32927	220nF 20% 50V
2255	4822 124 41643	100µF 20% 16V
2257	4822 122 31947	100nF 20% 63V
2258	4822 122 31765	100pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2261	4822 122 31947	100nF 20% 63V
2268	4822 122 31947	100nF 20% 63V
2269	4822 122 32482	22pF 2% 63V
2270	4822 126 11544	22nF 63V
2274	4822 122 32862	10nF 80% 50V
2301	5322 122 31647	1nF 10% 63V
2305	4822 126 10324	33pF 2% 63V
2306	4822 122 31772	47pF 2% 63V
2309	4822 122 31772	47pF 2% 63V
2312	4822 126 11544	22nF 63V
2313	4822 122 31774	56pF 2% 63V
2314	4822 122 32482	22pF 2% 63V
2318	4822 121 42408	220nF 5% 63V
2324	4822 126 11544	22nF 63V
2338	4822 122 31772	47pF 2% 63V
2342	4822 122 31972	39pF 2% 63V
2343	4822 122 31727	470pF 2% 63V
2344	4822 122 31775	680pF 2% 63V
2345	4822 122 31807	1200pF 2% 63V
2347	5322 122 31647	1nF 10% 63V
2353	4822 122 32862	10nF 80% 50V
2360	4822 124 40272	33µF 20% 16V
2361	4822 124 40849	330µF 20% 16V
2365	4822 122 31352	180pF 2% 100V
2366	4822 126 11544	22nF 63V
2367	4822 122 32862	10nF 80% 50V
2368	4822 122 32862	10nF 80% 50V
2369	4822 122 31825	27pF 2% 63V
2371	4822 122 31825	27pF 2% 63V
2372	4822 122 31965	220pF 2% 63V
2373	4822 122 31965	220pF 2% 63V
2374	4822 126 11544	22nF 63V
2375	4822 126 11544	22nF 63V
2376	4822 126 11544	22nF 63V
2377	5322 121 42661	330nF 5% 63V
2378	4822 122 31947	100nF 20% 63V
2379	4822 125 50207	2p-33p trim.
2380	4822 125 50207	2p-33p trim.
2381	5322 121 42661	330nF 5% 63V
2382	5322 122 31647	1nF 10% 63V
2383▲	4822 122 32442	10nF 50V
2384	5322 122 31647	1nF 10% 63V
2385▲	4822 122 32442	10nF 50V
2387	4822 124 40248	10µF 20% 63V
2388	5322 122 33446	3,3nF 10% 63V
2390	4822 126 11544	22nF 63V
2391	4822 126 11544	22nF 63V
2392	4822 126 11544	22nF 63V
2395	4822 126 11544	22nF 63V
2396	4822 122 32927	220nF 20% 50V
2397	4822 126 11544	22nF 63V
2398	4822 124 40248	10µF 20% 63V
2399▲	4822 124 40433	47µF 20% 25V
2400	4822 126 11544	22nF 63V
2433	4822 126 11544	22nF 63V
2434	5322 122 33446	3,3nF 10% 63V
2435	5322 122 33446	3,3nF 10% 63V
2436	4822 122 31961	68pF 2% 63V
2438	4822 126 11544	22nF 63V
2440	4822 126 11544	22nF 63V
2442	4822 126 11544	22nF 63V
2445	4822 126 11804	330nF
2446	4822 126 11804	330nF
2447	4822 126 11804	330nF
2451	5322 121 42661	330nF 5% 63V
2452	4822 124 22466	1µF 20% 50V
2453	4822 122 31774	56pF 2% 63V
2454	4822 126 10324	33pF 2% 63V
2455	4822 126 10324	33pF 2% 63V
2456	4822 126 10324	33pF 2% 63V
2476▲	4822 124 40246	4,7µF 20% 63V
2478	4822 122 31784	4,7nF 10% 50V
2479	4822 122 32183	56nF 10% 50V
2480	4822 124 40272	33µF 20% 16V
2600	4822 122 31947	100nF 20% 63V
2602	4822 122 31947	100nF 20% 63V
2604	4822 122 31947	100nF 20% 63V
2606	4822 122 31947	100nF 20% 63V
2608	4822 122 32927	220nF 20% 50V
2620	4822 122 32927	220nF 20% 50V
2622	4822 122 32927	220nF 20% 50V
2624	5322 122 31842	330pF 2% 63V
2626	4822 122 32927	220nF 20% 50V
2627	5322 124 41431	22µF 20% 35V
2628	5322 122 31842	330pF 2% 63V
2630	4822 122 32927	220nF 20% 50V
2632	5322 122 31842	330pF 2% 63V
2634	4822 121 42408	220nF 5% 63V
2636	5322 122 31842	330pF 2% 63V
2638	4822 121 42408	220nF 5% 63V
2642	4822 122 32927	220nF 20% 50V
2646	4822 122 32927	220nF 20% 50V
2658	4822 122 31961	68pF 2% 63V
2659	4822 122 31961	68pF 2% 63V
2660	5322 122 31647	1nF 10% 63V
2662	5322 122 31647	1nF 10% 63V
2664	4822 122 32153	1,8nF 10% 63V
2666	4822 122 32153	1,8nF 10% 63V
2680	4822 122 31947	100nF 20% 63V
2681	4822 122 32542	47nF 10% 63V
2682	4822 124 40195	150µF 20% 16V
2684	4822 121 51252	470nF 5% 63V
2686	4822 121 51252	470nF 5% 63V
2688	4822 122 31782	15nF 10% 50V
2690	4822 122 31782	15nF 10% 50V
2692	4822 122 31981	33nF 5% 50V
2694	4822 122 31916	5,6nF 10% 63V
2696	4822 122 31981	33nF 5% 50V
2697	4822 122 32765	820pF 2% 63V
2698	4822 122 31916	5,6nF 10% 63V
2699	4822 122 32765	820pF 2% 63V
2700	4822 124 40242	1µF 20% 63V
2702	4822 124 40242	1µF 20% 63V
2704	4822 122 31644	2,2nF 10% 63V
2706	5322 124 41431	22µF 20% 35V
2707	4822 122 31784	4,7nF 10% 50V
2714	4822 126 11544	22nF 63V
2720	5322 124 41431	22µF 20% 35V
2721	4822 122 31784	4,7nF 10% 50V
2726	4822 122 31644	2,2nF 10% 63V
2727	4822 124 42362	33µF 20% 16V
2728	4822 124 42362	33µF 20% 16V
2734	4822 126 11544	22nF 63V

─▭─

3101	4822 116 52175	100Ω 5% 0,5W
3104	4822 116 52175	100Ω 5% 0,5W
3112	4822 050 11002	1k 1% 0,4W
3113	4822 116 52175	100Ω 5% 0,5W
3114	4822 116 52175	100Ω 5% 0,5W
3115	4822 116 52175	100Ω 5% 0,5W
3116	4822 116 52175	100Ω 5% 0,5W
3117	4822 051 20222	2k2 5% 0,1W
3119	4822 051 20222	2k2 5% 0,1W
3120	4822 051 20222	2k2 5% 0,1W
3121	4822 051 10123	12k 2% 0,25W
3122	4822 051 10123	12k 2% 0,25W
3123	4822 051 10123	12k 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3130	4822 051 10101	100Ω 2% 0,25W
3130▲	4822 051 10103	10k 2% 0,25W
3131	4822 116 52175	100Ω 5% 0,5W
3132	4822 116 52175	100Ω 5% 0,5W
3133	4822 051 10151	150Ω 2% 0,25W
3134	4822 116 52175	100Ω 5% 0,5W
3135	4822 051 10101	100Ω 2% 0,25W
3136	4822 051 10101	100Ω 2% 0,25W
3137	4822 116 52175	100Ω 5% 0,5W
3138	4822 116 52175	100Ω 5% 0,5W
3139	4822 116 52175	100Ω 5% 0,5W
3140	4822 050 11002	1k 1% 0,4W
3141	4822 050 11002	1k 1% 0,4W
3142	4822 050 11002	1k 1% 0,4W
3143	4822 050 11002	1k 1% 0,4W
3144	4822 050 11002	1k 1% 0,4W
3145	4822 050 11002	1k 1% 0,4W
3146	4822 050 11002	1k 1% 0,4W
3151	4822 051 10562	5k6 2% 0,25W
3153▲	4822 051 10103	10k 2% 0,25W
3154	4822 051 10152	1k5 2% 0,25W
3155	4822 051 10104	100k 2% 0,25W
3156	4822 051 10562	5k6 2% 0,25W
3157	4822 050 11002	1k 1% 0,4W
3158	4822 050 11002	1k 1% 0,4W
3159▲	4822 051 10103	10k 2% 0,25W
3160▲	4822 052 10109	10Ω 5% 0,33W
3160▲	4822 052 10758	7Ω5 5% 0,33W
3161▲	4822 051 10103	10k 2% 0,25W
3162▲	4822 052 10159	15Ω 5% 0,33W
3162▲	4822 052 10758	7Ω5 5% 0,33W
3163	4822 051 10223	22k 2% 0,25W
3164	4822 051 10101	100Ω 2% 0,25W
3164	4822 051 10108	1Ω 5% 0,25W
3165	4822 051 10101	100Ω 2% 0,25W
3165	4822 051 10108	1Ω 5% 0,25W
3166▲	4822 052 10228	2Ω2 5% 0,33W
3167	4822 051 10122	1k2 2% 0,25W
3168▲	4822 051 10242	2k4 2% 0,25W
3169	4822 050 11002	1k 1% 0,4W
3170▲	4822 116 82772	3Ω9 5% 0.3W
3171	4822 052 11511	510Ω 5% 0,5W
3172▲	4822 052 10159	15Ω 5% 0,33W
3172▲	4822 111 41424	22Ω 5% 0,3W
3175	4822 051 10153	15k 2% 0,25W
3176▲	4822 051 10103	10k 2% 0,25W
3177▲	4822 051 10103	10k 2% 0,25W
3178	4822 051 10223	22k 2% 0,25W
3180	4822 116 52224	470Ω 5% 0,5W
3181	4822 051 10822	8k2 2% 0,25W
3182	4822 116 52214	200Ω 5% 0,5W
3183	4822 116 52233	10k 5% 0,5W
3184	4822 051 51201	120Ω 1% 0,125W
3185	4822 051 10471	470Ω 2% 0,25W
3186▲	4822 116 52256	2k2 5% 0,5W
3187	4822 051 10759	75Ω 2% 0,25W
3189	4822 051 10223	22k 2% 0,25W
3190	4822 051 10823	82k 2% 0,25W
3191	4822 051 10823	82k 2% 0,25W
3192	4822 051 10153	15k 2% 0,25W
3193	4822 051 10331	330Ω 2% 0,25W
3194	4822 051 10331	330Ω 2% 0,25W
3200▲	4822 051 10472	4k7 2% 0,25W
3201▲	4822 051 10472	4k7 2% 0,25W
3202▲	4822 051 10472	4k7 2% 0,25W
3203	4822 116 52191	33Ω 5% 0,5W
3204	4822 116 52175	100Ω 5% 0,5W
3205	4822 051 10759	75Ω 2% 0,25W
3206	4822 051 10759	75Ω 2% 0,25W
3207	4822 051 10759	75Ω 2% 0,25W
3208	4822 051 10101	100Ω 2% 0,25W
3209	4822 051 10101	100Ω 2% 0,25W
3210	4822 051 10101	100Ω 2% 0,25W
3211▲	4822 116 52217	270Ω 5% 0,5W
3211	4822 116 52224	470Ω 5% 0,5W
3212	4822 116 52191	33Ω 5% 0,5W
3213	4822 051 10102	1k 2% 0,25W
3215	4822 051 10689	68Ω 2% 0,25W
3216▲	4822 052 10828	8Ω2 5% 0,33W
3217	4822 116 52224	470Ω 5% 0,5W
3218	4822 051 10471	470Ω 2% 0,25W
3219	4822 051 10008	0Ω 5% 0,25W
3219	4822 051 10271	270Ω 2% 0,25W
3220	4822 051 10471	470Ω 2% 0,25W
3220	4822 051 10561	560Ω 2% 0,25W
3222▲	4822 116 52217	270Ω 5% 0,5W
3224	4822 051 10759	75Ω 2% 0,25W
3225	4822 051 10471	470Ω 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3233	4822 051 10102	1k 2% 0,25W
3234	4822 051 10759	75Ω 2% 0,25W
3235	4822 051 10759	75Ω 2% 0,25W
3237▲	4822 116 52217	270Ω 5% 0,5W
3238	4822 116 52222	390Ω 5% 0,5W
3239	4822 051 10271	270Ω 2% 0,25W
3240	4822 051 10759	75Ω 2% 0,25W
3242▲	4822 116 52219	330Ω 5% 0,5W
3243	4822 051 10152	1k5 2% 0,25W
3244	4822 051 10102	1k 2% 0,25W
3245	4822 051 10474	470k 2% 0,25W
3246	4822 051 10331	330Ω 2% 0,25W
3247	4822 051 10102	1k 2% 0,25W
3248	4822 051 10681	680Ω 2% 0,25W
3249	4822 051 10102	1k 2% 0,25W
3253	4822 051 10331	330Ω 2% 0,25W
3254▲	4822 052 10828	8Ω2 5% 0,33W
3255	4822 051 10821	820Ω 2% 0,25W
3259▲	4822 051 10103	10k 2% 0,25W
3260▲	4822 052 10828	8Ω2 5% 0,33W
3261	4822 051 10471	470Ω 2% 0,25W
3262▲	4822 051 10103	10k 2% 0,25W
3263	4822 051 10689	68Ω 2% 0,25W
3264	4822 051 10471	470Ω 2% 0,25W
3265▲	4822 051 10103	10k 2% 0,25W
3266▲	4822 051 10103	10k 2% 0,25W
3267▲	4822 051 10103	10k 2% 0,25W
3268	4822 051 10101	100Ω 2% 0,25W
3269	4822 051 10561	560Ω 2% 0,25W
3270▲	4822 051 10472	4k7 2% 0,25W
3271	4822 051 10471	470Ω 2% 0,25W
3272	4822 116 52228	680Ω 5% 0,5W
3273	4822 051 10471	470Ω 2% 0,25W
3274▲	4822 051 10103	10k 2% 0,25W
3275	4822 051 10689	68Ω 2% 0,25W
3276	4822 051 10471	470Ω 2% 0,25W
3277	4822 051 10271	270Ω 2% 0,25W
3279	4822 051 10689	68Ω 2% 0,25W
3281	4822 116 52201	75Ω 5% 0,5W
3285	4822 051 10123	12k 2% 0,25W
3286	4822 051 10123	12k 2% 0,25W
3287	4822 051 10123	12k 2% 0,25W
3288	4822 051 10123	12k 2% 0,25W
3300▲	4822 051 10103	10k 2% 0,25W
3301	4822 051 10332	3k3 2% 0,25W
3302	4822 051 10331	330Ω 2% 0,25W
3303	4822 051 10361	360Ω 2% 0,25W
3304	4822 051 10101	100Ω 2% 0,25W
3305	4822 051 10104	100k 2% 0,25W
3306	4822 051 10361	360Ω 2% 0,25W
3307	4822 051 10331	330Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10101	100Ω 2% 0,25W
3310▲	4822 116 52283	4k7 5% 0,5W
3316	4822 051 10112	1k1 2% 0,25W
3318▲	4822 051 10103	10k 2% 0,25W
3319	4822 116 52233	10k 5% 0,5W
3320▲	4822 116 52283	4k7 5% 0,5W
3321	4822 051 10511	510Ω 2% 0,25W
3325	4822 051 10682	6k8 2% 0,25W
3326▲	4822 051 10103	10k 2% 0,25W
3326	4822 051 10123	12k 2% 0,25W
3326	4822 051 103323k3 2% 0,25W	
3326	4822 122 31947	100nF 20% 63V

Spare parts list / Stükliste / Liste des pièces

3327	4822 051 10122	1k2 2% 0,25W
3336▲	4822 051 10472	4k7 2% 0,25W
3338	4822 051 10391	390Ω 2% 0,25W
3339	4822 051 10153	15k 2% 0,25W
3342	4822 051 20222	2k2 5% 0,1W
3344	4822 051 10273	27k 2% 0,25W
3345	4822 051 10102	1k 2% 0,25W
3346	4822 051 10102	1k 2% 0,25W
3348▲	4822 051 10472	4k7 2% 0,25W
3350	4822 051 51201	120Ω 1% 0,125W
3351▲	4822 051 10472	4k7 2% 0,25W
3353	4822 051 10332	3k3 2% 0,25W
3360▲	4822 052 10278	2Ω7 5% 0,33W
3361	4822 051 10102	1k 2% 0,25W
3365	4822 051 10331	330Ω 2% 0,25W
3365	4822 051 10332	3k3 2% 0,25W
3369	4822 051 10331	330Ω 2% 0,25W
3370	4822 100 11391	330Ω 30% lin
3371	4822 051 10431	430Ω 2% 0,25W
3372	4822 051 10331	330Ω 2% 0,25W
3375	4822 116 80176	1Ω 5% 0,5W
3377	4822 051 10682	6k8 2% 0,25W
3380	4822 050 11002	1k 1% 0,4W
3382	4822 051 20222	2k2 5% 0,1W
3383	4822 051 10333	33k 2% 0,25W
3387	4822 050 11002	1k 1% 0,4W
3389	4822 051 10182	1k8 2% 0,25W
3391	4822 051 20222	2k2 5% 0,1W
3392	4822 051 10101	100Ω 2% 0,25W
3393	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10101	100Ω 2% 0,25W
3395	4822 051 10471	470Ω 2% 0,25W
3396	4822 051 20222	2k2 5% 0,1W
3397	4822 052 10249	24Ω 5% 0,33W
3397	4822 116 81192	12Ω 5% 0,3W
3398	4822 116 52175	100Ω 5% 0,5W
3399	4822 116 52175	100Ω 5% 0,5W
3401▲	4822 052 10339	33Ω 5% 0,33W
3425	4822 116 52224	470Ω 5% 0,5W
3426	4822 116 52224	470Ω 5% 0,5W
3439	4822 051 10221	220Ω 2% 0,25W
3441	4822 051 10221	220Ω 2% 0,25W
3443	4822 051 10221	220Ω 2% 0,25W
3450	4822 051 20222	2k2 5% 0,1W
3451▲	4822 051 10103	10k 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3453	4822 051 10511	510Ω 2% 0,25W
3454	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 10101	100Ω 2% 0,25W
3456	4822 051 10101	100Ω 2% 0,25W
3465	4822 051 10102	1k 2% 0,25W
3466	4822 051 10479	47Ω 2% 0,25W
3471	4822 116 52233	10k 5% 0,5W
3472	4822 051 10682	6k8 2% 0,25W
3473	4822 051 10362	3k6 2% 0,25W
3474	4822 051 10101	100Ω 2% 0,25W
3475	4822 051 10124	120k 2% 0,25W
3476	4822 051 10154	150k 2% 0,25W
3477	4822 116 52286	5k1 5% 0,5W
3477	4822 116 52297	68k 5% 0,5W
3478	4822 116 52224	470Ω 5% 0,5W
3479	4822 051 10008	0Ω 5% 0,25W
3479	4822 051 10223	22k 2% 0,25W
3480▲	4822 052 10278	2Ω7 5% 0,33W
3481▲	4822 052 10278	2Ω7 5% 0,33W
3482	4822 052 10431	430Ω 5% 0,33W
3483	4822 116 52175	100Ω 5% 0,5W
3484	4822 051 10102	1k 2% 0,25W
3600	4822 051 10301	300Ω 2% 0,25W
3600	4822 051 10362	3k6 2% 0,25W
3602	4822 100 11212	2k2 30% lin
3603	4822 051 10108	1Ω 5% 0,25W
3603	4822 051 10332	3k3 2% 0,25W
3604	4822 051 10182	1k8 2% 0,25W
3604	4822 051 10272	2k7 2% 0,25W
3605▲	4822 051 10472	4k7 2% 0,25W
3606▲	4822 052 10279	27Ω 5% 0,33W
3608	4822 051 10101	100Ω 2% 0,25W
3610	4822 051 10101	100Ω 2% 0,25W
3612	4822 051 10102	1k 2% 0,25W
3620	4822 051 10184	180k 2% 0,25W
3622	4822 051 10184	180k 2% 0,25W
3624	4822 051 10102	1k 2% 0,25W
3626	4822 051 10184	180k 2% 0,25W
3628	4822 051 10102	1k 2% 0,25W
3630	4822 051 10184	180k 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3634	4822 051 10184	180k 2% 0,25W
3636	4822 051 10102	1k 2% 0,25W
3638	4822 051 10184	180k 2% 0,25W
3642	4822 051 10184	180k 2% 0,25W
3646	4822 051 10184	180k 2% 0,25W
3650	4822 051 10392	3k9 2% 0,25W
3651	4822 051 10123	12k 2% 0,25W
3652	4822 051 10392	3k9 2% 0,25W
3653	4822 051 10123	12k 2% 0,25W
3654	4822 116 52244	15k 5% 0,5W
3660	4822 051 10331	330Ω 2% 0,25W
3662	4822 051 10151	150Ω 2% 0,25W
3664	4822 051 10331	330Ω 2% 0,25W
3665▲	4822 116 81193	15Ω 5% 0,3W
3666	4822 051 10151	150Ω 2% 0,25W
3668	4822 051 10331	330Ω 2% 0,25W
3672	4822 051 10331	330Ω 2% 0,25W
3680▲	4822 052 10279	27Ω 5% 0,33W
3682	4822 051 10568	5Ω6 5% 0,25W
3684	4822 116 52175	100Ω 5% 0,5W
3686	4822 116 52175	100Ω 5% 0,5W
3700	4822 116 52263	2k7 5% 0,5W
3702	4822 051 10223	22k 2% 0,25W
3704	4822 051 10102	1k 2% 0,25W
3706▲	4822 116 81203	10Ω 5% 0,3W
3708	4822 051 10101	100Ω 2% 0,25W
3710	4822 051 20183	18k 5% 0,1W
3712	4822 116 52203	91Ω 5% 0,5W
3713	4822 116 52203	91Ω 5% 0,5W
3714	4822 051 10828	8Ω2 5% 0,25W
3720▲	4822 116 81203	10Ω 5% 0,3W
3722	4822 116 52263	2k7 5% 0,5W
3724	4822 051 10223	22k 2% 0,25W
3726	4822 051 10102	1k 2% 0,25W
3728	4822 051 10101	100Ω 2% 0,25W
3730	4822 051 20183	18k 5% 0,1W
3732	4822 116 52203	91Ω 5% 0,5W
3733	4822 116 52203	91Ω 5% 0,5W
3734	4822 051 10828	8Ω2 5% 0,25W
3750	4822 051 10272	2k7 2% 0,25W
3751▲	4822 051 10472	4k7 2% 0,25W
3997	4822 051 10008	0Ω 5% 0,25W
3997	4822 122 31947	100nF 20% 63V
4xxx	4822 051 10008	0Ω 5% 0,25W
9104	4822 116 52191	33E 5% 0,5W

∿

5115	4822 152 20677	10µH 10%
5270	4822 157 52983	22µH 10%
5280	4822 157 63065	0,68µH 20%
5303	4822 157 53302	1µH 20%
5304	4822 157 53302	1µH 20%
5305	4822 157 62823	26µH 6%
5330	4822 157 62823	26µH 6%
5331	4822 152 20678	33µH 10%
5332	4822 157 62823	26µH 6%
5345	4822 157 62822	4,5µH 6%
5346	4822 157 62823	26µH 6%
5370	4822 157 62824	7,5µH 6%
5454	4822 157 63065	0,68µH 20%
5455	4822 157 63065	0,68µH 20%
5456	4822 157 63065	0,68µH 20%
5460	4822 157 63065	0,68µH 20%

→|

6112	4822 130 82334	BAS85
6117	4822 130 80906	LLZ-F7V5
6120	4822 130 80446	LL4148
6121	4822 130 80446	LL4148
6135	4822 130 80905	LLZ-F5V1
6136	4822 130 83086	LL4150
6137	4822 130 83086	LL4150
6163	4822 130 81226	LLZ-F33
6165	4822 130 80446	LL4148
6166	4822 130 80446	LL4148
6168	4822 130 80446	LL4148
6170	4822 130 80446	LL4148
6172	4822 130 80906	LLZ-C7V5
6173	4822 130 80446	LL4148
6178	4822 130 81222	LLZ-C15
6179	4822 130 81222	LLZ-C15
6205	4822 130 80446	LL4148
6206	4822 130 80446	LL4148
6207	4822 130 80446	LL4148
6256	4822 130 80446	LL4148
6257	4822 130 80446	LL4148
6280	4822 130 80446	LL4148
6280	4822 130 82334	BAS85
6281	4822 130 80446	LL4148
6281	4822 130 82334	BAS85
6331	4822 130 80882	LLZ-C3V9
6342	4822 130 80888	BA682
6343	4822 130 80888	BA682
6345	4822 130 30841	1N4150
6370	4822 130 83406	LLZ-F3V6
6386	4822 130 80446	LL4148
6387	4822 130 80954	LLZ-C5V6
6450	4822 130 81512	LLZ-C6V2
6465	4822 130 80446	LL4148
6471▲	4822 130 30621	1N4148
6478	4822 130 82345	LLZ-C22
6478	4822 130 82346	LLZ-C27
6479	4822 130 80877	BAV103
6480	4822 130 82882	LLZ-F8V2
6481	4822 130 80881	LLZ-C33
6610▲	4822 130 30621	1N4148
6611▲	4822 130 30621	1N4148
6660	4822 130 80446	LL4148
6661	4822 130 81223	LLZ-C2V4
6662	4822 130 80446	LL4148
6663	4822 130 81223	LLZ-C2V4
6664	4822 130 80446	LL4148
6665	4822 130 80446	LL4148

⊗ ▭

7110	4822 130 42513	BC858C
7119▲	5322 130 41982	BC848B
7120▲	5322 130 41982	BC848B
7121	4822 130 42513	BC858C
7137	4822 209 32283	ST24C08CB1
7150	5322 130 42136	BC848C
7175	5322 209 10883	PCF8574P
7176	4822 130 42513	BC858C
7177	4822 130 42513	BC858C
7178▲	5322 130 41982	BC848B
7182	5322 130 44743	BSR12
7183▲	5322 130 41982	BC848B
7186	4822 209 73852	PMBT2369
7188	4822 130 60511	BC847B
7193	4822 209 61115	LF353N
7216	4822 130 42615	BC817-40
7219	4822 209 63292	TEA6414
7243	5322 130 41983	BC858B
7244▲	5322 130 41982	BC848B
7258	5322 209 10421	HEF4094BP
7260	4822 130 42615	BC817-40
7261	5322 130 42136	BC848C
7265▲	5322 130 41982	BC848B
7268	4822 130 42615	BC817-40
7270▲	5322 130 41982	BC848B
7273	4822 130 42615	BC817-40
7305	5322 130 41983	BC858B
7311▲	5322 130 41982	BC848B
7314	5322 130 42136	BC848C
7324	4822 209 63901	TDA4568/V2
7330	5322 130 42136	BC848C
7331	5322 130 42136	BC848C
7332	5322 130 42136	BC848C
7333	5322 130 42136	BC848C
7335	4822 130 42513	BC858C
7336	5322 130 42136	BC848C
7338▲	5322 130 41982	BC848B
7340	4822 130 60887	BF840
7350▲	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 31714	TDA4661/V2
7390	4822 130 42513	BC858C
7395	4822 209 30394	TDA8443B/C1
7430	4822 209 31592	TDA4680/V6
7450	5322 130 42755	BC847C
7451	5322 130 42755	BC847C
7471	5322 130 42136	BC848C
7480	4822 130 63528	BD533P
7600	4822 209 63967	TDA8417/V3
7620	4822 209 10263	4052B
7622	4822 209 10263	4052B
7630	4822 209 61115	LF353N
7635	4822 209 61115	LF353N
7660▲	5322 130 41982	BC848B
7661▲	5322 130 41982	BC848B
7662▲	5322 130 41982	BC848B
7680	4822 209 63734	TDA8425/V7
7704▲	4822 209 83163	LM833N
7706▲	5322 130 41982	BC848B
7708	5322 130 41983	BC858B
7730▲	5322 130 41982	BC848B
7732	5322 130 41983	BC858B

Mains switch panel [A]

▲	4822 265 40596	2P male
▲	4822 265 30389	2P male
	4822 267 51348	2P horizontal

Various

1001	4822 212 30763	Mains switch panel FL2
1001	4822 212 31409	Mains switch panel FL4
	4822 276 13422	Mains switch FL2
	4822 276 13498	Mains switch FL4

-▭-

3201▲	4822 053 21475	4M7 5% 0,5W

Mains filter panel [A]

▲	4822 265 30389	2P male

Various

1002	4822 212 30783	Mains filter panel FL2
1002	4822 212 31408	Mains filter panel FL4
▲	4822 256 30496	Fuse holder
1200▲	4822 070 33151	Fuse 3,15A

-||-

2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V

-▭-

3203	4822 111 41573	470Ω
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W

∿

5202▲	4822 157 10291	Transf.CU28D5

Control panel [H]

	4822 265 31097	4P
	4822 265 41334	10P

Various

1004	4822 212 31264	Control panel FL2
1004	4822 212 31406	Keyboard panel FL4
	4822 276 13396	Tack switch

-▭-

3148	4822 051 10473	47k 2% 0,25W
3149	4822 051 10473	47k 2% 0,25W
3150	4822 051 10473	47k 2% 0,25W
3161	4822 116 52224	470Ω 5% 0,5W
3161	4822 051 10471	470Ω 2% 0,25W
3162	4822 116 52224	470Ω 5% 0,5W
3162	4822 051 10471	470Ω 2% 0,25W
3163	4822 116 52224	470Ω 5% 0,5W
3163	4822 051 10471	470Ω 2% 0,25W
3164	4822 116 52224	470Ω 5% 0,5W
3164	4822 051 10471	470Ω 2% 0,25W
3165	4822 116 52224	470Ω 5% 0,5W
3165	4822 051 10471	470Ω 2% 0,25W
3166	4822 051 10471	470Ω 2% 0,25W
3167	4822 051 10471	470Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

→|

6131	4822 130 83407	LSS260-DO
6132	4822 130 83407	LSS260-DO
6133	4822 130 83407	LSS260-DO
6134	4822 130 83407	LSS260-DO
6135	4822 130 83407	LSS260-DO
6136	4822 130 83407	LSS260-DO
6137	4822 130 83407	LSS260-DO

⊗ ▭

7131	5322 130 42012	BC858
7132	5322 130 42012	BC858
7133	5322 130 42012	BC858
7134	5322 130 42012	BC858
7135	5322 130 42012	BC858
7136	5322 130 42012	BC858
7137	5322 130 42012	BC858

Led panel [H]

	4822 265 31096	3P
	4822 265 31097	4P

Various

1003	4822 212 30765	Led panel FL2
1003	4822 212 31407	Led panel FL4
	4822 256 92079	Led holder FL2

	4
1100	4
1100	4

-||-

2100	4
2131	4

-▭-

3100	4
3128	4
3188	4
3189	4
3198	4
3199	4
4xxx	4

∿

5100	48

→|

6128	48
6129	48

⊗ ▭

7128	53
7128	53
7129	53
7129	53
7130	53

Conn

	48
	48
	48

Various

1005	48
1005	48
	48
	48

-||-

2241	48
2640	53
2640	48
2644	53
2644	48
2716	48
2736	48

-▭-

3241	48
3251	48
3252	48
3640	48
3641	48
3644	48
3645	48
4xxx	48

North/

	48
	48

Various

1060	48

-||-

2450	48
2452	48
2453	53

	4822 255 41325	Led holder FL4
1100	4822 212 23281	IR receiver FL2
1100	4822 212 31399	IR receiver FL4

⊣⊢

2100	4822 124 40684	150µF 20% 6,3V
2131	4822 124 22606	68µF 20% 16V

▭

3100	4822 051 10102	1k 2% 0,25W
3128	4822 051 10471	470Ω 2% 0,25W
3188	4822 051 10101	100Ω 2% 0,25W
3189	4822 051 10101	100Ω 2% 0,25W
3198	4822 051 10181	180Ω 2% 0,25W
3199	4822 051 10181	180Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

∿

5100	4822 157 53906	47µH

▶|

6128	4822 130 80313	TLHG4400
6129	4822 130 83414	TLHR4405

⊗ ▭

7128	5322 130 42012	BC858
7128	5322 130 41983	BC858B
7129	5322 130 42012	BC858
7129	5322 130 41983	BC858B
7130	5322 130 42136	BC848C

Connector panel [C]

4822 267 40666	3P
4822 265 30985	3P black
4822 265 41335	11P

Various

1005	4822 212 31265	Connector panel FL2
1005	4822 212 31405	Connector panel FL4
	4822 267 20454	Socket headph.+cinch+SV HS FL2
	4822 267 20462	Socket headph.+cinch+SV HS FL4

⊣⊢

2241	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 2% 63V
2640	4822 121 70438	330pF 5% 100V
2644	5322 122 31842	330pF 2% 63V
2644	4822 121 70438	330pF 5% 100V
2716	4822 122 32597	6,8nF 10% 63V
2736	4822 122 32597	6,8nF 10% 63V

▭

3241	4822 051 10759	75Ω 2% 0,25W
3251	4822 051 10759	75Ω 2% 0,25W
3252	4822 051 10759	75Ω 2% 0,25W
3640	4822 051 10102	1k 2% 0,25W
3641	4822 051 10223	22k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W
3645	4822 051 10223	22k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

North/South panel [B']

4822 264 40207	3P male
4822 265 20509	2P grey

Various

1060	4822 212 31004	North/South panel

⊣⊢

2450	4822 121 51049	15nF 1% 63V
2452	4822 121 41857	10nF 5% 250V
2453	5322 121 42386	100nF 5% 63V

▭

3452	4822 116 52175	100Ω 5% 0,5W
3453	4822 116 52195	47Ω 5% 0,5W
3454	4822 116 52283	4k7 5% 0,5W
3455	4822 116 52283	4k7 5% 0,5W
3456	4822 116 52264	27k 5% 0,5W
3457	4822 116 52264	27k 5% 0,5W
3459	4822 053 11108	1Ω 5% 2W
3460	4822 116 52217	270Ω 5% 0,5W
3461	5322 100 11542	4k7 30% lin
3462	4822 116 52207	1k2 5% 0,5W

∿

5450	4822 157 62336	100µH 10%
5452	4822 157 71033	N/S correction coil

▶|

6452	4822 130 30621	1N4148
6453	5322 130 34834	BZX79-C3V6
6454	4822 130 34499	BZX79-C20
6455	4822 130 30621	1N4148

⊗ ▭

7450	4822 130 63441	J108
7451	4822 130 63441	J108

Scavem amplifier panel [Z]

4822 265 20509	2P grey
4822 265 40818	8P male
4822 264 40207	3P male
4822 267 41143	3P male
4822 267 40666	3P male blue

Various

1041	4822 212 31327	Scaven panel FL2.24 28"
1041	4822 212 31258	Scavem panel FL2.24 32"
1041	4822 212 31259	Scavem panel FL2.X6

⊣⊢

2604	4822 124 22427	47µF 20% 40V
2605	4822 122 33496	100nF 10% 63V
2606	4822 124 22427	47µF 20% 40V
2607	4822 122 33496	100nF 10% 63V
2611	4822 122 33496	100nF 10% 63V
2612	4822 122 33496	100nF 10% 63V
2620▲	4822 122 32442	10nF 50V
2622▲	4822 122 32442	10nF 50V
2623	4822 122 33496	100nF 10% 63V
2624▲	4822 122 32442	10nF 50V
2625	4822 124 40255	100µF 20% 63V
2634▲	4822 122 32442	10nF 50V
2636	4822 122 33496	100nF 10% 63V
2637	4822 122 33496	100nF 10% 63V
2638	4822 122 33496	100nF 10% 63V
2639	4822 122 33496	100nF 10% 63V
2642▲	4822 122 32442	10nF 50V
2646	4822 122 33496	100nF 10% 63V
2647	4822 124 40255	100µF 20% 63V
2661	4822 124 41596	22µF 20% 50V
2671	4822 122 31727	470pF 2% 63V
2671	4822 122 31775	680pF 2% 63V
2671	4822 122 31727	470pF 2% 63V
2672	4822 122 31727	470pF 2% 63V
2672	4822 122 31775	680pF 2% 63V
2672	4822 122 31727	470pF 2% 63V

▭

3401	4822 051 10104	100k 2% 0,25W
3402	4822 051 10104	100k 2% 0,25W
3411	4822 051 10104	100k 2% 0,25W
3412	4822 051 10104	100k 2% 0,25W
3413	4822 050 11002	1k 1% 0,4W
3421	4822 051 10473	47k 2% 0,25W
3422▲	4822 051 10103	10k 2% 0,25W
3423	4822 051 10104	100k 2% 0,25W
3424	4822 051 10104	100k 2% 0,25W
3425	4822 051 10473	47k 2% 0,25W
3426▲	4822 053 11821	820Ω 5% 2W
3430	4822 051 10473	47k 2% 0,25W
3431	4822 051 10473	47k 2% 0,25W
3432▲	4822 051 10103	10k 2% 0,25W
3433	4822 051 10104	100k 2% 0,25W
3434	4822 051 10104	100k 2% 0,25W
3435	4822 051 10473	47k 2% 0,25W
3606	4822 051 10478	4Ω7 5% 0,25W
3608	4822 051 10478	4Ω7 5% 0,25W
3609▲	4822 052 10478	4Ω7 5% 0,33W
3610▲	4822 052 10478	4Ω7 5% 0,33W
3612	4822 051 10478	4Ω7 5% 0,25W
3613	4822 051 10478	4Ω7 5% 0,25W
3614	4822 051 10478	4Ω7 5% 0,25W
3615▲	4822 050 24708	4Ω7 1% 0,6W
3630▲	4822 053 10681	680Ω 5% 1W
3632	4822 116 52224	470Ω 5% 0,5W
3633	4822 051 10152	1k5 2% 0,25W
3634	4822 051 10132	1k3 2% 0,25W
3635	4822 051 10339	33Ω 2% 0,25W
3637	4822 116 52224	470Ω 5% 0,5W
3638▲	4822 053 10681	680Ω 5% 1W
3640	4822 051 10473	47k 2% 0,25W
3641	4822 051 10152	1k5 2% 0,25W
3642	4822 051 10132	1k3 2% 0,25W
3643	4822 051 10339	33Ω 2% 0,25W
3645▲	4822 052 10479	47Ω 5% 0,33W
3647▲	4822 052 10479	47Ω 5% 0,33W
3648	4822 051 10681	680Ω 2% 0,25W
3649	4822 051 10243	24k 2% 0,25W
3650	4822 051 10122	1k2 2% 0,25W
3652	4822 051 10331	330Ω 2% 0,25W
3653	4822 051 10471	470Ω 2% 0,25W
3654	4822 051 10331	330Ω 2% 0,25W
3655	4822 051 10471	470Ω 2% 0,25W
3656	4822 051 10331	330Ω 2% 0,25W
3657	4822 051 10471	470Ω 2% 0,25W
3658	4822 051 10331	330Ω 2% 0,25W
3659	4822 051 10471	470Ω 2% 0,25W
3661	4822 051 10104	100k 2% 0,25W
3670	4822 051 10822	8k2 2% 0,25W
3671	4822 051 10822	8k2 2% 0,25W
3672	4822 051 10102	1k 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W
3998	4822 051 10569	56Ω 2% 0,25W

∿

5612	4822 157 63507	0,18µH
5614	4822 157 63507	0,18µH

▶|

6426	4822 130 80906	LLZ-C7V5
6427	4822 130 80906	LLZ-C7V5
6610	4822 130 80884	LLZ-C5V1
6616	4822 130 80884	LLZ-C5V1
6625	4822 130 80446	LL4148
6630	4822 130 80446	LL4148
6638	4822 130 80446	LL4148
6647	4822 130 80446	LL4148
6661	4822 130 80446	LL4148
6662	4822 130 80446	LL4148

⊗ ▭

7401	5322 130 42756	BC857C
7411	5322 130 42756	BC857C
7421	4822 130 42705	BC847
7423	5322 130 42756	BC857C
7425	5322 130 42755	BC847C
7430	4822 130 42705	BC847
7431	4822 130 42705	BC847
7433	5322 130 42756	BC857C
7435	5322 130 42755	BC847C
7607	4822 130 42705	BC847
7608	4822 130 61207	BC848
7610	4822 130 41746	BD825
7611	4822 130 42589	BF370
7612	4822 130 41746	BD825
7613	4822 130 41774	BD826
7614	4822 130 41746	BD825
7615	4822 130 41774	BD826
7616	4822 130 41746	BD825
7617	4822 130 42589	BF370
7618	4822 130 42705	BC847
7619	4822 130 61233	BC857
7620	4822 130 42705	BC847
7621	4822 130 61233	BC857

Scavem filter panel [Y]

4822 265 41372	8P
4822 265 20512	2P green
4822 265 20509	2P grey
4822 265 31085	5P

Various

1042	4822 212 31262	Scavem filter FL2.24 32"
1042	4822 212 31263	Scavem filter FL2.X6
1042	4822 212 31326	Scavem filter FL2.24 28"

⊣⊢

2501▲	4822 122 32442	10nF 50V
2502▲	4822 122 32442	10nF 50V
2503	4822 122 33496	100nF 10% 63V
2504	4822 122 33496	100nF 10% 63V
2505	5322 122 31647	1nF 10% 63V
2507	4822 124 40248	10µF 20% 63V
2508	4822 122 33496	100nF 10% 63V
2510	5322 122 31647	1nF 10% 63V
2512▲	4822 122 32442	10nF 50V
2513	4822 122 33496	100nF 10% 63V
2516	4822 122 31771	390pF 2% 63V
2517	4822 122 32082	4,7pF 5% 50V
2518	4822 122 32082	4,7pF 5% 50V
2526	4822 122 31825	27pF 2% 63V
2527	4822 122 31772	47pF 2% 63V
2528	4822 122 32504	15pF 2% 63V
2529	4822 122 33496	100nF 10% 63V
2531	4822 122 31825	27pF 2% 63V
2532	5322 122 31647	1nF 10% 63V
2538	4822 122 31965	220pF 2% 63V
2541	4822 122 31825	27pF 2% 63V
2542	5322 122 31647	1nF 10% 63V
2548	4822 122 31965	220pF 2% 63V
2550▲	4822 122 32442	10nF 50V
2560	4822 122 31797	22nF 10% 63V
2570	4822 122 31825	27pF 2% 63V

▭

3400	4822 051 10473	47k 2% 0,25W
3410	4822 051 10473	47k 2% 0,25W
3420	4822 051 10473	47k 2% 0,25W
3500	4822 051 10821	820Ω 2% 0,25W
3500	4822 051 10102	1k 2% 0,25W
3501	4822 051 10109	10Ω 2% 0,25W
3502	4822 051 10221	220Ω 2% 0,25W
3507▲	4822 052 10478	4Ω7 5% 0,33W
3508	4822 051 10331	330Ω 2% 0,25W
3509	4822 051 10331	330Ω 2% 0,25W
3510	4822 051 10471	470Ω 2% 0,25W
3511	4822 051 10108	1Ω 5% 0,25W
3512	4822 051 10101	100Ω 2% 0,25W
3513▲	4822 051 10103	10k 2% 0,25W
3514▲	4822 051 10472	4k7 2% 0,25W
3515	4822 051 10822	8k2 2% 0,25W
3516	4822 051 10101	100Ω 2% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3520	4822 051 10101	100Ω 2% 0,25W
3521	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10471	470Ω 2% 0,25W
3523	4822 051 10471	470Ω 2% 0,25W
3524	4822 051 10241	240Ω 2% 0,25W
3525	4822 051 10182	1k8 2% 0,25W
3526	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 051 10471	470Ω 2% 0,25W
3529▲	4822 051 10472	4k7 2% 0,25W
3530	4822 051 10511	510Ω 2% 0,25W
3531▲	4822 051 10103	10k 2% 0,25W
3532	4822 051 10562	5k6 2% 0,25W
3532	4822 051 10752	7k5 2% 0,25W
3533	4822 051 10471	470Ω 2% 0,25W
3534	4822 051 10332	3k3 2% 0,25W
3535	4822 051 10511	510Ω 2% 0,25W
3536	4822 051 10751	750Ω 2% 0,25W
3537	4822 051 51201	120Ω 1% 0,125W
3538	4822 051 10279	27Ω 2% 0,25W
3540	4822 051 10511	510Ω 2% 0,25W
3541▲	4822 051 10103	10k 2% 0,25W
3542	4822 051 10562	5k6 2% 0,25W
3542	4822 051 10752	7k5 2% 0,25W
3544	4822 051 10332	3k3 2% 0,25W
3545	4822 051 10511	510Ω 2% 0,25W
3546	4822 051 10751	750Ω 2% 0,25W
3547	4822 051 51201	120Ω 1% 0,125W
3548	4822 051 10279	27Ω 2% 0,25W
3551	4822 051 10241	240Ω 2% 0,25W
3560	4822 051 10101	100Ω 2% 0,25W
3561	4822 051 10101	100Ω 2% 0,25W
3570	4822 051 10759	75Ω 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W

∿

5526	4822
5527	4822
5570	4822

▶|

6530	5322
6540	5322
6550	5322
6559	4822

⊗ ▭

7400	5322
7410	5322
7420	5322
7500	5322
7504	4822
7505	4822
7506	4822
7507	4822
7508	4822
7509	4822
7531	4822
7541	4822
7550	5322
7560	4822

DAF par

▲	4822
	4822
	4822

Various

1043	4822

⊣⊢

2860▲	4822 1
2861▲	4822 1

▭

3301	4822 1
3302	4822 1

∿

5860	4822 1

Panoram

4822 2
4822 2
4822 2
4822 2
4822 2

Various

1028	4822 2
1028	4822 2

⊣⊢

2101	4822 1
2102	4822 1
2105	4822 1
2106	4822 1
2110	4822 1
2110	4822 1
2140	4822 1
2141	4822 1

▭

3100	4822 1
3101	4822 1
3102▲	4822 1
3105	4822 1
3106	4822 1
3107	4822 0
3108	4822 0
3109	4822 0
3110▲	4822 1
3111▲	4822 1

avem filter
2.24 32"
avem filter
2.X6
avem filter
2.24 28"

nF 50V
nF 50V
0nF 10% 63V
0nF 10% 63V
F 10% 63V
µF 20% 63V
0nF 10% 63V
F 10% 63V
nF 50V
0nF 10% 63V

0pF 2% 63V
7pF 5% 50V
7pF 5% 50V
pF 2% 63V
pF 2% 63V
pF 2% 63V
0nF 10% 63V
pF 2% 63V
F 10% 63V
0pF 2% 63V

pF 2% 63V
F 10% 63V
0pF 2% 63V
nF 50V
nF 10% 63V
pF 2% 63V

k 2% 0,25W
k 2% 0,25W
k 2% 0,25W
0Ω 2% 0,25W
2% 0,25W
Ω 2% 0,25W
0Ω 2% 0,25W
7 5% 0,33W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
5% 0,25W
0Ω 2% 0,25W
k 2% 0,25W
7 2% 0,25W
2 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
3 2% 0,25W
0Ω 2% 0,25W
2% 0,25W
0Ω 2% 0,25W
7 2% 0,25W
0Ω 2% 0,25W

k 2% 0,25W
6 2% 0,25W
5 2% 0,25W
0Ω 2% 0,25W
3 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 1% 0,125W
2 2% 0,25W
0Ω 2% 0,25W

2% 0,25W
3 2% 0,25W
5 2% 0,25W
2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 1% 0,125W
2 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
2 2% 0,25W
2 2% 0,25W
2 2% 0,25W

∿

5526	4822 157 53066	15µH 10%
5527	4822 157 60123	6,8µH 10%
5570	4822 157 60123	6,8µH 10%

▶|

6530	5322 130 34337	BAV99
6540	5322 130 34337	BAV99
6550	5322 130 34337	BAV99
6559	4822 130 80884	LLZ-C5V1

⊗ ▭

7400	5322 130 42755	BC847C
7410	5322 130 42755	BC847C
7420	5322 130 42755	BC847C
7500	5322 130 42012	BC858
7504	4822 209 30404	NE592/N8
7505	4822 130 61207	BC848
7506	4822 130 61207	BC848
7507	4822 130 61207	BC848
7508	4822 209 73852	PMBT2369
7509	4822 209 73852	PMBT2369
7531	4822 130 61207	BC848
7541	4822 130 61207	BC848
7550	5322 130 60646	BSR57
7560	4822 209 63896	PCF8574AP

DAF panel [B]

▲	4822 265 40596	2P male
	4822 267 41018	2P red
	4822 265 20509	2P grey

Various

1043	4822 212 31261	DAF panel

⊣⊢

2860▲	4822 126 12267	470pF 10% 2kV
2861▲	4822 126 12239	560pF 10% 2kV

–▭–

3301	4822 116 21221	1M A 385V VDR
3302	4822 116 21221	1M A 385V VDR

∿

5860	4822 148 81242	Transf. DAF

Panorama panel [B]

	4822 265 20509	2P grey
	4822 267 41018	2P red
	4822 267 41144	3P grey
	4822 267 41142	3P
	4822 267 41143	3P

Various

1028	4822 212 31324	Panoramic view 32"
1028	4822 212 31325	Panoramic view 28"

⊣⊢

2101	4822 121 51563	560nF 5% 250V
2102	4822 121 51563	560nF 5% 250V
2105	4822 124 80341	1µF 20% 160V
2106	4822 124 80341	1µF 20% 160V
2110	4822 121 51563	560nF 5% 250V
2110	4822 121 70281	510nF 5% 400V
2140	4822 126 12784	22nF 20% 100V
2141	4822 124 40255	100µF 20% 63V

–▭–

3100	4822 116 52258	220k 5% 0,5W
3101	4822 116 52274	36k 5% 0,5W
3102▲	4822 116 52215	220Ω 5% 0,5W
3105	4822 116 52267	30k 5% 0,5W
3106	4822 116 52267	30k 5% 0,5W
3107	4822 052 10332	3k3 5% 0,33W
3108	4822 052 10332	3k3 5% 0,33W
3109	4822 052 10332	3k3 5% 0,33W
3110▲	4822 116 52197	56Ω 5% 0,5W
3111▲	4822 116 52197	56Ω 5% 0,5W
3115	4822 116 80176	1Ω 5% 0,5W
3121	4822 116 52296	6k8 5% 0,5W
3122	4822 116 52296	6k8 5% 0,5W
3140	4822 116 52175	100Ω 5% 0,5W
3141	4822 116 52175	100Ω 5% 0,5W
3142▲	4822 116 52283	4k7 5% 0,5W
3143▲	4822 116 52256	2k2 5% 0,5W
3144▲	4822 116 52283	4k7 5% 0,5W
3145	4822 116 52296	6k8 5% 0,5W
3146	4822 116 52296	6k8 5% 0,5W
3148	4822 050 11002	1k 1% 0,4W
3149	4822 116 52175	100Ω 5% 0,5W
3198	4822 051 10333	33k 2% 0,25W
3198	4822 116 52264	27k 5% 0,5W
3199	4822 051 10333	33k 2% 0,25W
3199	4822 116 52264	27k 5% 0,5W

∿

5110	4822 157 63256	Coil CU15

▶|

6100▲	4822 130 32896	BYD33M
6101▲	4822 130 32896	BYD33M
6103	4822 130 34499	BZX79-C20
6120	4822 130 34233	BZX79-C5V1

⊗ ▭

7100	4822 130 63364	IRFI640G
7140	4822 209 63896	PCF8574AP
7141	4822 130 44257	BC547
7142▲	4822 209 32126	SOC1012T

Picture tube panel [E]

	4822 265 20509	2P male grey
▲	4822 265 40596	2P male Vg2
	4822 267 41146	*6P male*
	4822 267 60379	7P male

Various

1030	4822 212 31321	PTP 29"
1030	4822 212 31385	PTP 25"-28"-33"
1030	4822 212 31322	PTP 28" FL2.24
1030	4822 212 31323	PTP 32" FL2.24
	4822 255 70261	Socket for CRT 25"-28"-33"
	4822 267 51225	Socket for CRT 29"
	4822 267 51249	Socket for CRT 28" FL2.24
	4822 267 51248	Socket for CRT 32" FL2.24
	4822 492 70788	Spring fix IC
	4822 404 31199	Bracket

⊣⊢

2700	4822 126 11824	100pF 10% 1kV
2701	4822 122 32139	12pF 2% 63V
2701	4822 122 32507	6,8pF 5% 50V
2702	4822 122 31784	4,7nF 10% 50V
2703	4822 121 42068	33 nF 10% 400V
2704	4822 122 31746	1nF 2% 63V
2705▲	4822 124 40433	47µF 20% 25V
2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2707	4822 121 70093	33nF 5% 2kV
2708	4822 122 31773	560pF 2% 63V
2708	5322 122 31842	330pF 2% 63V
2709	4822 124 80091	4,7µF 20% 250V
2710	4822 122 31797	22nF 10% 63V
2711	4822 122 31971	10pF 2% 63V
2711	4822 122 32507	6,8pF 5% 50V
2712	4822 122 31784	4,7nF 10% 50V
2713	4822 121 42068	33 nF 10% 400V
2714	4822 122 31746	1nF 2% 63V
2715	4822 121 42068	33 nF 10% 400V
2720	4822 122 31825	27pF 2% 63V
2721	4822 122 31971	10pF 2% 63V
2721	4822 122 32504	15pF 2% 63V
2722	4822 122 31784	4,7nF 10% 50V
2724	4822 122 31746	1nF 2% 63V
2725	4822 122 31774	56pF 2% 63V
2726	4822 122 31774	56pF 2% 63V
2727	4822 122 31774	56pF 2% 63V
2729	4822 121 41156	68nF 10% 250V

–▭–

3700	4822 051 20222	2k2 5% 0,1W
3701▲	4822 052 11108	1Ω 5% 0,5W
3701	4822 052 11338	3Ω3 5% 0,5W
3701	4822 052 11398	3Ω9 5% 0,5W
3702	4822 051 10201	200Ω 2% 0,25W
3703▲	4822 052 11108	1Ω 5% 0,5W
3703	4822 052 11338	3Ω3 5% 0,5W
3703	4822 052 11398	3Ω9 5% 0,5W
3704	4822 051 10222	2k2 2% 0,25W
3704	4822 051 10272	2k7 2% 0,25W
3705▲	4822 051 10242	2k4 2% 0,25W
3705	4822 051 10332	3k3 2% 0,25W
3706	4822 050 21204	120k 1% 0,6W
3706	4822 050 21504	150k 1% 0,6W
3707	4822 051 10008	0Ω 5% 0,25W
3708	4822 111 50579	680Ω 10% 0,5W
3709	4822 051 10124	120k 2% 0,25W
3709	4822 051 10154	150k 2% 0,25W
3710	4822 051 10333	33k 2% 0,25W
3710	4822 051 10822	8k2 2% 0,25W
3712	4822 051 10201	200Ω 2% 0,25W
3714	4822 051 10272	2k7 2% 0,25W
3714	4822 051 20222	2k2 5% 0,1W
3715▲	4822 051 10242	2k4 2% 0,25W
3715	4822 051 10332	3k3 2% 0,25W
3716	4822 050 21204	120k 1% 0,6W
3716	4822 050 21504	150k 1% 0,6W
3718	4822 111 50579	680Ω 10% 0,5W
3719	4822 051 10333	33k 2% 0,25W
3720	4822 051 10823	82k 2% 0,25W
3722	4822 051 10201	200Ω 2% 0,25W
3723	4822 050 11002	1k 1% 0,4W
3724	4822 051 10272	2k7 2% 0,25W
3724	4822 051 20222	2k2 5% 0,1W
3725▲	4822 051 10242	2k4 2% 0,25W
3725	4822 051 10332	3k3 2% 0,25W
3726	4822 050 21204	120k 1% 0,6W
3726	4822 050 21504	150k 1% 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 41572	220Ω 10% 0,5W
3728	4822 111 50579	680Ω 10% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731▲	4822 052 10279	27Ω 5% 0,33W
3732▲	4822 052 10189	18Ω 5% 0,33W
3733	4822 051 10008	0Ω 5% 0,25W
3734	4822 050 21604	160k 1% 0,6W
3735▲	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10123	12k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 053 12823	82k 5% 3W
3739	4822 101 11185	47kΩ 10%
3740	4822 050 21604	160k 1% 0,6W
3741	4822 116 52221	360Ω 5% 0,5W
3742	4822 116 52221	360Ω 5% 0,5W
3743	4822 116 52221	360Ω 5% 0,5W
3744▲	4822 052 10229	22Ω 5% 0,33W
3750▲	4822 051 10103	10k 2% 0,25W
3750	4822 051 10223	22k 2% 0,25W
3750	4822 051 10563	56k 2% 0,25W
3750	4822 051 10823	82k 2% 0,25W
3998	4822 051 10223	22k 2% 0,25W
3998	4822 051 10823	82k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

∿

5700	4822 157 70635	33µH 7,5%
5700	4822 157 70636	82µH 5%
5700	4822 157 70854	39µH 5%
5703	4822 157 70635	33µH 7,5%

▶|

6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6708▲	4822 130 32896	BYD33M
6709	4822 130 82969	BZD23-C24
6710	4822 130 30842	BAV21
6711	4822 130 30842	BAV21
6712	4822 130 30842	BAV21

⊗ ▭

7704	4822 130 60373	BC856B
7705	4822 209 30417	TDA6111Q/N2
7706	4822 209 30417	TDA6111Q/N2
7707	4822 209 30417	TDA6111Q/N2

Euro AV3 panel [R]

	4822 265 31174	6P grey

Various

	4822 267 51335	Socket scart
1022	4822 212 31256	Scart panel

⊣⊢

2301	4822 121 42408	220nF 5% 63V
2304	4822 121 70438	330pF 5% 100V
2306	4822 121 70438	330pF 5% 100V

–▭–

3304▲	4822 050 21002	1k 1% 0,6W
3306▲	4822 050 21002	1k 1% 0,6W

Euro AV3 interface panel [P]

	4822 265 51371	Strip 29P
	4822 265 31174	6P grey

Various

1255	4822 212 31257	Scart interface panel

⊣⊢

2005	4822 124 41576	2,2µF 20% 50V
2007	4822 124 41576	2,2µF 20% 50V
2031	4822 122 31971	10pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2042	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2044	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 31947	100nF 20% 63V
2048	4822 122 32927	220nF 20% 50V
2049	4822 122 32927	220nF 20% 50V
2217	4822 124 22606	68µF 20% 16V
2218	4822 124 22606	68µF 20% 16V
2219	4822 124 22606	68µF 20% 16V

–▭–

3003	4822 051 10223	22k 2% 0,25W
3005	4822 051 10223	22k 2% 0,25W
3013	4822 116 52224	470Ω 5% 0,5W
3015▲	4822 051 10103	10k 2% 0,25W
3016	4822 051 10271	270Ω 2% 0,25W
3017	4822 051 10271	270Ω 2% 0,25W
3020▲	4822 051 10103	10k 2% 0,25W
3021▲	4822 051 10103	10k 2% 0,25W
3022	4822 051 10271	270Ω 2% 0,25W
3023▲	4822 116 52215	220Ω 5% 0,5W
3025▲	4822 051 10103	10k 2% 0,25W
3026	4822 051 10271	270Ω 2% 0,25W
3027	4822 051 10271	270Ω 2% 0,25W
3030▲	4822 051 10103	10k 2% 0,25W
3031	4822 051 10271	270Ω 2% 0,25W
3032	4822 051 10271	270Ω 2% 0,25W
3040	4822 116 52238	12k 5% 0,5W
3041	4822 116 52238	12k 5% 0,5W
3042	4822 116 52175	100Ω 5% 0,5W
3047▲	4822 116 52283	4k7 5% 0,5W
3048	4822 051 10331	330Ω 2% 0,25W
3210	4822 116 81217	2Ω2 5% 0,3W
3211	4822 116 83584	5Ω6 5% 0,3W
3212▲	4822 116 81193	15Ω 5% 0,3W
4xxx	4822 051 10008	0Ω 5% 0,25W

∿

5031	*4822 152 20677*	*10µH 10%*

▶|

6040	4822 130 80446	LL4148
6041	4822 130 80446	LL4148

⊗ ▭

7015	4822 130 61207	BC848
7020	4822 130 61207	BC848
7025	4822 130 61207	BC848
7030	4822 130 61207	BC848
7040	4822 209 63292	TEA6414
7200	4822 209 10263	4052B

Spare parts list / Stükliste / Liste des pièces

LFR-box [L] [M]

	4822 265 61259	PLCC socket 68P
	4822 265 41328	10P female

Various

1750	4822 212 31229	LFR-box FLX.14/16
1750	4822 212 31233	LFR-box FLX.24/26
1750	4822 212 31313	LFR-box FL2.24 /58
1750	4822 212 31314	LFR-box FL2.24 /62
1001	4822 242 72572	Crystal 12 MHz
1002	4822 242 71417	Crystal 13,875 MHz

⊣⊢

2000	4822 122 33496	100nF 10% 63V
2001	*4822 122 33496*	*100nF 10% 63V*
2002	4822 122 33496	100nF 10% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 122 33496	100nF 10% 63V
2005	4822 122 33496	100nF 10% 63V
2006	4822 124 40731	330µF 20% 6,3V
2007	4822 122 33496	100nF 10% 63V
2010	4822 122 33496	100nF 10% 63V
2011	4822 122 33496	100nF 10% 63V
2012	4822 122 33496	100nF 10% 63V
2013	4822 122 33496	100nF 10% 63V
2014	4822 122 33496	100nF 10% 63V
2015	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2017	4822 122 33496	100nF 10% 63V
2018	4822 122 33496	100nF 10% 63V
2022	4822 122 33496	100nF 10% 63V
2023	4822 122 33496	100nF 10% 63V
2026	4822 122 32083	8,2pF 5% 50V
2027	4822 122 31961	68pF 2% 63V
2028	4822 122 31772	47pF 2% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 32083	8,2pF 5% 50V
2031	4822 122 31767	150pF 2% 63V
2032	4822 122 31772	47pF 2% 63V
2033	4822 122 32083	8,2pF 5% 50V
2034	4822 122 33496	100nF 10% 63V
2035	4822 122 31767	150pF 2% 63V
2036	4822 122 31772	47pF 2% 63V
2037	4822 122 31765	100pF 2% 63V
2038	4822 122 31765	100pF 2% 63V
2039	4822 124 41643	100µF 20% 16V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 31825	27pF 2% 63V
2043▲	4822 122 32442	10nF 50V
2044▲	4822 122 32442	10nF 50V
2045	4822 124 41576	2,2µF 20% 50V
2046	4822 124 40248	10µF 20% 63V
2047	4822 122 32504	15pF 2% 63V
2048	4822 124 41576	2,2µF 20% 50V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 41997	470µF 10V
2051	4822 122 32504	15pF 2% 63V
2052	4822 122 32142	270pF 2% 63V
2053	4822 122 32891	68nF 10% 63V
2054	4822 122 32504	15pF 2% 63V
2055	5322 122 31647	1nF 10% 63V
2056	4822 122 31727	470pF 2% 63V
2057	4822 122 31797	22nF 10% 63V
2058	4822 122 32142	270pF 2% 63V
2059	4822 122 31765	100pF 2% 63V
2060	4822 122 31825	27pF 2% 63V
2061	4822 122 31825	27pF 2% 63V
2062	4822 122 31825	27pF 2% 63V
2063	4822 122 31772	47pF 2% 63V
2064	4822 124 41643	100µF 20% 16V
2065	4822 122 33496	100nF 10% 63V
2066	*4822 122 33496*	*100nF 10% 63V*
2067	4822 122 33496	100nF 10% 63V
2068	4822 122 33496	100nF 10% 63V
2069	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 124 41643	100µF 20% 16V
2072	5322 122 31647	1nF 10% 63V
2073	4822 122 31839	82pF 2% 63V
2074	4822 122 31981	33nF 5% 50V
2075	4822 122 33496	100nF 10% 63V
2076	5322 122 31842	330pF 2% 63V
2077	4822 124 41576	2,2µF 20% 50V
2078	4822 122 33496	100nF 10% 63V
2079	4822 121 42937	2,7nF 1% 250V
2080	5322 124 41431	22µF 20% 35V
2081▲	4822 124 40246	4,7µF 20% 63V
2082	4822 122 31772	47pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 33496	100nF 10% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31825	27pF 2% 63V
2087	4822 122 31825	27pF 2% 63V
2088	*4822 122 31797*	*22nF 10% 63V*
2090	4822 122 31772	47pF 2% 63V
2091	4822 122 31746	1nF 2% 63V
2092▲	4822 124 40433	47µF 20% 25V
2093	4822 124 41997	470µF 10V
2094	4822 122 33496	100nF 10% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31746	1nF 2% 63V
2098	4822 124 22606	68µF 20% 16V
2099	4822 122 33496	100nF 10% 63V
2100	4822 122 33496	100nF 10% 63V
2102	4822 122 31644	2,2nF 10% 63V
2103	4822 124 41097	220µF 20% 16V
2105	4822 122 33496	100nF 10% 63V
2106	4822 124 41643	100µF 20% 16V
2107	4822 122 33496	100nF 10% 63V
2108	4822 122 31765	100pF 2% 63V
2109	4822 122 32506	5,6pF 5% 50V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31842	330pF 2% 63V
2112	4822 122 31981	33nF 5% 50V
2113	4822 122 31644	2,2nF 10% 63V
2114	4822 126 11492	220nF 10% 50V
2115	4822 126 11492	220nF 10% 50V
2116	4822 122 31768	180pF 2% 63V
2117▲	4822 122 32442	10nF 50V
2118	4822 122 33496	100nF 10% 63V
2119	4822 122 33496	100nF 10% 63V
2120	4822 122 31965	220pF 2% 63V
2121	4822 122 31965	220pF 2% 63V
2122	5322 122 31842	330pF 2% 63V
2123	4822 122 33496	100nF 10% 63V
2124	4822 122 31767	150pF 2% 63V
2125	4822 122 33498	2,7nF 10% 63V
2126	4822 122 33496	100nF 10% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31767	150pF 2% 63V
2129	4822 122 33496	100nF 10% 63V
2130	4822 122 31771	390pF 2% 63V
2131	*4822 122 31825*	*27pF 2% 63V*
2132	5322 122 31842	330pF 2% 63V
2133	4822 122 31825	27pF 2% 63V
2134	4822 122 31771	390pF 2% 63V
2136	4822 122 31825	27pF 2% 63V
2150▲	4822 124 40433	47µF 20% 25V
2151	4822 122 31772	47pF 2% 63V
2152	4822 122 33496	100nF 10% 63V
2153	4822 122 31772	47pF 2% 63V
2160	*4822 122 33498*	*2,7nF 10% 63V*
2161	4822 122 31825	27pF 2% 63V
2162	4822 122 31971	10pF 2% 63V
2163	4822 126 11492	220nF 10% 50V
2164	4822 122 31971	10pF 2% 63V
2165	4822 126 10324	33pF 2% 63V
2166	4822 122 31772	47pF 2% 63V
2167	4822 122 31772	47pF 2% 63V
2168	4822 126 10324	33pF 2% 63V
2169	4822 124 40849	330µF 20% 16V
2170	4822 122 32139	12pF 2% 63V
2172	4822 122 31839	82pF 2% 63V
2175	4822 122 33496	100nF 10% 63V
2179	4822 122 33496	100nF 10% 63V
2180	4822 122 31797	22nF 10% 63V
2181	4822 122 31772	47pF 2% 63V
2184	4822 122 32139	12pF 2% 63V
2185▲	4822 124 40433	47µF 20% 25V
2186▲	4822 124 40433	47µF 20% 25V
2187	4822 124 40731	330µF 20% 6,3V
2188	4822 122 31772	47pF 2% 63V
2190	4822 126 11492	220nF 10% 50V

▭

3000	4822 051 10162	1k6 2% 0,25W
3001▲	4822 111 41424	22Ω 5% 0,3W
3002▲	4822 051 10242	2k4 2% 0,25W
3003	4822 051 10682	6k8 2% 0,25W
3004▲	4822 051 10472	4k7 2% 0,25W
3006▲	4822 050 24708	4Ω7 1% 0,6W
3007	4822 051 10209	20Ω 2% 0,25W
3008	4822 051 10008	0Ω 5% 0,25W
3009	4822 051 10829	82Ω 2% 0,25W
3011	4822 051 10101	100Ω 2% 0,25W
3012	4822 051 10339	33Ω 2% 0,25W
3013	4822 051 52201	220Ω 1% 0,125W
3014	4822 051 10101	100Ω 2% 0,25W
3016	4822 051 10759	75Ω 2% 0,25W
3017	4822 051 53601	360Ω 1% 0,125W
3019	4822 111 41423	18Ω 5% 0,3W
3020	4822 051 10181	180Ω 2% 0,25W
3021	4822 051 10101	100Ω 2% 0,25W
3022	4822 051 10101	100Ω 2% 0,25W
3023	4822 051 10008	0Ω 5% 0,25W
3024	4822 051 10473	47k 2% 0,25W
3025	*4822 051 10102*	*1k 2% 0,25W*
3026	4822 051 10181	180Ω 2% 0,25W
3027	4822 051 10132	1k3 2% 0,25W
3028	4822 051 10221	220Ω 2% 0,25W
3029	4822 051 10683	68k 2% 0,25W
3030	4822 051 10681	680Ω 2% 0,25W
3031	4822 051 10561	560Ω 2% 0,25W
3032	4822 051 10561	560Ω 2% 0,25W
3033	4822 051 10561	560Ω 2% 0,25W
3034	4822 051 10759	75Ω 2% 0,25W
3035	4822 051 20222	2k2 5% 0,1W
3036	4822 051 10221	220Ω 2% 0,25W
3037▲	4822 111 41424	22Ω 5% 0,3W
3038▲	4822 051 10103	10k 2% 0,25W
3039	4822 051 10683	68k 2% 0,25W
3040	4822 051 10104	100k 2% 0,25W
3041	4822 051 10561	560Ω 2% 0,25W
3042	4822 051 10102	1k 2% 0,25W
3043▲	4822 051 10103	10k 2% 0,25W
3044▲	4822 052 10279	27Ω 5% 0,33W
3045	4822 051 10162	1k6 2% 0,25W
3046	4822 051 10272	2k7 2% 0,25W
3047	4822 051 10332	3k3 2% 0,25W
3048	4822 051 10562	5k6 2% 0,25W
3049	4822 051 10229	22Ω 2% 0,25W
3050	4822 051 10122	1k2 2% 0,25W
3051	4822 051 10303	30k 2% 0,25W
3052	4822 051 10513	51k 2% 0,25W
3053	4822 051 10821	820Ω 2% 0,25W
3054	4822 100 20166	10k 30% lin
3055	4822 051 10181	180Ω 2% 0,25W
3055	4822 051 10221	220Ω 2% 0,25W
3056▲	4822 051 10472	4k7 2% 0,25W
3057▲	4822 051 10472	4k7 2% 0,25W
3058▲	4822 051 10472	4k7 2% 0,25W
3060	4822 051 10123	12k 2% 0,25W
3061	4822 051 10622	6k2 2% 0,25W
3062▲	4822 051 10103	10k 2% 0,25W
3063	4822 051 10471	470Ω 2% 0,25W
3064	4822 051 10104	100k 2% 0,25W
3065	*4822 051 10223*	*22k 2% 0,25W*
3066▲	4822 051 10242	2k4 2% 0,25W
3067	4822 051 10109	10Ω 2% 0,25W
3068▲	4822 051 10103	10k 2% 0,25W
3071	4822 051 10008	0Ω 5% 0,25W
3074▲	4822 051 10242	2k4 2% 0,25W
3075▲	4822 051 10103	10k 2% 0,25W
3076	4822 051 10221	220Ω 2% 0,25W
3078	4822 051 10223	22k 2% 0,25W
3079	4822 051 10471	470Ω 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 051 20222	2k2 5% 0,1W
3084	4822 051 10473	47k 2% 0,25W
3085▲	4822 116 81193	15Ω 5% 0,3W
3086	4822 051 10473	47k 2% 0,25W
3087	4822 051 10151	150Ω 2% 0,25W
3087	4822 051 10471	470Ω 2% 0,25W
3089	4822 116 81192	12Ω 5% 0,3W
3090	4822 051 10102	1k 2% 0,25W
3091	4822 051 51201	120Ω 1% 0,125W
3092	4822 051 10224	220k 2% 0,25W
3093	4822 051 10104	100k 2% 0,25W
3094	4822 051 10124	120k 2% 0,25W
3095	4822 051 10223	22k 2% 0,25W
3096	4822 051 10479	47Ω 2% 0,25W
3097	4822 051 10223	22k 2% 0,25W
3098	4822 051 10151	150Ω 2% 0,25W
3099	4822 051 10272	2k7 2% 0,25W
3100	4822 051 10221	220Ω 2% 0,25W
3101	4822 051 10122	1k2 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 53301	330Ω 1% 0,125W
3105▲	4822 051 10472	4k7 2% 0,25W
3106	4822 051 10152	1k5 2% 0,25W
3107	4822 051 52201	220Ω 1% 0,125W
3108▲	4822 051 10472	4k7 2% 0,25W
3109	4822 051 10109	10Ω 2% 0,25W
3110	4822 051 10681	680Ω 2% 0,25W
3111	4822 051 10102	1k 2% 0,25W
3112	4822 051 10181	180Ω 2% 0,25W
3113	4822 051 10152	1k5 2% 0,25W
3114	4822 051 53601	360Ω 1% 0,125W
3115	4822 051 10101	100Ω 2% 0,25W
3116▲	4822 051 10472	4k7 2% 0,25W
3117	4822 051 10102	1k 2% 0,25W
3118	4822 051 56201	620Ω 1% 0,125W
3119▲	4822 051 10103	10k 2% 0,25W
3120	4822 051 10271	270Ω 2% 0,25W
3121	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10221	220Ω 2% 0,25W
3125	4822 051 52701	270Ω 1% 0,125W
3127	4822 051 59101	910Ω 1% 0,125W
3128	4822 051 10271	270Ω 2% 0,25W
3160	4822 051 10562	5k6 2% 0,25W
3161	4822 051 20222	2k2 5% 0,1W
3162	*4822 051 10102*	*1k 2% 0,25W*
3163	4822 051 20222	2k2 5% 0,1W
3166	4822 051 10569	56Ω 2% 0,25W
3167	4822 051 53301	330Ω 1% 0,125W
3168	4822 051 10471	470Ω 2% 0,25W
3169▲	4822 051 10103	10k 2% 0,25W
3176	4822 051 10221	220Ω 2% 0,25W
3180	4822 051 10101	100Ω 2% 0,25W
3181	4822 051 10101	100Ω 2% 0,25W
3182	4822 051 10102	1k 2% 0,25W
3183	4822 051 10471	470Ω 2% 0,25W
3184	4822 051 10101	100Ω 2% 0,25W
3201	4822 051 10102	1k 2% 0,25W
3202	4822 051 10102	1k 2% 0,25W
3203	4822 051 10102	1k 2% 0,25W
3227	4822 051 10151	150Ω 2% 0,25W
3228	4822 051 10182	1k8 2% 0,25W
3300	4822 051 10339	33Ω 2% 0,25W
3300	4822 051 10279	27Ω 2% 0,25W
3300	4822 051 10569	56Ω 2% 0,25W
3300	4822 051 10471	470Ω 2% 0,25W
3300	4822 051 10561	560Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

∿

5000	4822 157 50961	22µH 10%
5001	4822 157 60147	2,2µH
5002	4822 157 60147	2,2µH
5003	4822 157 60147	2,2µH
5004	4822 157 60147	2,2µH
5005	4822 157 60147	2,2µH
5006	4822 157 60147	2,2µH
5007	4822 157 60147	2,2µH
5008	4822 157 52403	3,3µH 10%
5009	4822 157 60147	2,2µH
5010	4822 157 52403	3,3µH 10%
5011	4822 157 60147	2,2µH
5012	4822 157 52403	3,3µH 10%
5013	4822 157 60147	2,2µH
5014	4822 157 52224	15µH 10%
5015	4822 157 60147	2,2µH
5016	4822 157 52138	27µH 10%
5017	4822 157 60147	2,2µH
5018	4822 157 60147	2,2µH
5019	4822 157 52403	3,3µH 10%
5020	4822 157 60147	2,2µH
5021	4822 157 60147	2,2µH
5022	*4822 157 60498*	*56µH 10%*
5023	4822 156 11145	1,0µH 6%
5025	4822 156 11143	4,3µH 6%
5026	4822 157 60147	2,2µH
5027	4822 156 11144	3,3µH 6%
5028	4822 157 60147	2,2µH
5030	4822 157 63834	3,9µH 10%
5031	4822 157 63834	3,9µH 10%
5032	*4822 157 63834*	*3,9µH 10%*
5033	4822 152 20677	10µH 10%
5034	4822 157 60147	2,2µH
5035	4822 157 53634	5,6µH 10%

→|

6000	4822 130 80446	LL4148
6001	4822 130 80884	LLZ-C5V1
6002	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6005	4822 130 80446	LL4148
6006	4822 130 31253	BZX55-C2V4
6007	4822 130 80888	BA682
6008	4822 130 80888	BA682
6009	5322 130 80119	BBY40
6010	5322 130 80119	BBY40
6013	4822 130 80954	LLZ-C5V6
6014	4822 130 80446	LL4148

⊗ ▭

7000	5322 130 42136	BC848C
7010	5322 130 42136	BC848C
7011	5322 130 41983	BC858B
7012▲	5322 130 41982	BC848B
7013	4822 130 61207	BC848
7014	5322 130 41983	BC858B
7022▲	5322 130 41982	BC848B
7023	4822 130 42513	BC858C
7024	5322 130 42012	BC858
7025	5322 130 41983	BC858B
7026▲	5322 130 4	
7027	4822 130 6	
7029▲	5322 130 4	
7030	4822 130 4	
7034	4822 130 4	
7035	4822 130 4	
7036	5322 130 4	
7037	4822 130 6	
7038	5322 130 4	
7039	5322 130 4	
7040	4822 130 4	
7042	5322 130 4	
7060	5322 130 4	
7120	4822 209 3	
7201	4822 209 3	
7202	4822 209 3	
7203	4822 209 3	
7204	4822 209 6	
7205	4822 209 6	
7206	4822 209 6	
7207	4822 209 3	
7208	4822 209 3	
7209	4822 209 3	
7210	4822 209 7	
7214	4822 209 6	
7215	4822 209 3	
7215	4822 209 3	
7215	4822 209 3	
7216	4822 209 6	
7217	4822 209 6	
7218	5322 209 6	
7219	4822 209 6	
7221▲	4822 209 8	
7231	4822 209 7	
7232	4822 209 5	
7244	5322 209 6	
7261	4822 209 7	

ECO-box [L

	4822 255 4
	4822 265 4

Various

1750	4822 212 3
1064	4822 242 7
1162	4822 242 7

⊣⊢

2001	4822 122 3
2002	4822 122 3
2004	4822 122 3
2005	4822 122 3
2006	4822 122 3
2007	4822 122 3
2008	4822 122 3
2009	4822 122 3
2010	*4822 124 2*
2011	4822 122 3
2012	4822 124 4
2013	4822 122 3
2016	4822 122 3
2019	4822 122 3
2024	4822 126 1
2025▲	4822 124 4
2026	4822 122 3
2027▲	4822 124 4
2028	4822 122 3
2029	4822 122 3
2030	4822 122 3
2031	4822 124 4
2032	4822 122 3
2033	4822 124 4
2034	4822 122 3
2035▲	4822 124 4
2036	4822 124 41
2037	4822 122 3
2038	4822 122 3
2040	4822 122 3
2041	4822 122 3
2042	4822 122 3
2046	4822 122 31
2047	4822 122 31
2048	4822 122 3
2049	4822 122 3
2050	4822 122 3
2051	4822 122 3
2052	4822 122 3
2053	4822 122 3

% 0,25W
2% 0,25W
1% 0,125W
1% 0,125W
2% 0,25W
% 0,25W
% 0,1W
0,25W
% 0,1W
% 0,25W

1% 0,125W
2% 0,25W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
0,25W
2% 0,25W
2% 0,25W
0,25W

0,25W
0,25W
2% 0,25W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
% 0,25W

10%
10%
10%
10%
10%
10%
10%
10%
10%
6%
6%
6%
10%
10%
10%
10%
10%

48
C5V1
48
35
48
48
55-C2V4
32
32
40
40
C5V6
48

48C
48C
58B
48B
48
58B
48B
58C
58
58B

7026▲	5322 130 41982	BC848B
7027	4822 130 61207	BC848
7029▲	5322 130 41982	BC848B
7030	4822 130 40938	BC548
7034	4822 130 42131	BF550
7035	4822 130 42513	BC858C
7036	5322 130 42136	BC848C
7037	4822 130 61207	BC848
7038	5322 130 42136	BC848C
7039	5322 130 42136	BC848C
7040	4822 130 42131	BF550
7042	5322 130 42136	BC848C
7060	5322 130 42136	BC848C
7120	4822 209 33289	P83C652FFP/050 V34D
7201	4822 209 32483	MSM514221A
7202	4822 209 32483	MSM514221A
7203	4822 209 32483	MSM514221A
7204	4822 209 60525	TMS4C1050-3N
7205	4822 209 60525	TMS4C1050-3N
7206	4822 209 60525	TMS4C1050-3N
7207	4822 209 31056	SDA9205-2
7208	4822 209 31057	UPD65640G-011-3B9
7209	4822 209 31059	SAA7158
7210	4822 209 72042	MC78L05ACP
7214	4822 209 63645	SAA5231/V7
7215	4822 209 31851	SAA9042P/A/MOB
7215	4822 209 33287	SAA9042P/B/MOB/58
7215	4822 209 33288	SAA9042P/C/MOB/62
7216	4822 209 63423	TDA2579B/N2
7217	4822 209 63644	SDA9086-3
7218	5322 209 61004	N74F74D
7219	4822 209 63892	UPD65636C-040
7221▲	4822 209 83163	LM833N
7231	4822 209 72042	MC78L05ACP
7232	4822 209 52359	HYB514256B-70
7244	5322 209 61004	N74F74D
7261	4822 209 72042	MC78L05ACP

ECO-box [L']

	4822 255 41312	PLCC socket 68P
	4822 265 41328	10P female

Various

1750	4822 212 31392	ECO-box FL4.27
1064	4822 242 72572	Crystal 12 MHz
1162	4822 242 71417	Crystal 13,875

⊣⊢

2001	4822 122 31768	180pF 2% 63V
2002	4822 122 32504	15pF 2% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31971	10pF 2% 63V
2006	4822 122 32765	820pF 2% 63V
2007	4822 122 31768	180pF 2% 63V
2008	4822 122 31971	10pF 2% 63V
2009	4822 122 32765	820pF 2% 63V
2010	4822 124 22347	47µF 20% 50V
2011	4822 122 33496	100nF 10% 63V
2012	4822 124 41643	100µF 20% 16V
2013	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2019	4822 122 33496	100nF 10% 63V
2024	4822 126 11492	220nF 10% 50V
2025▲	4822 124 40196	220µF 20% 16V
2026	4822 122 33496	100nF 10% 63V
2027▲	4822 124 40196	220µF 20% 16V
2028	4822 122 33496	100nF 10% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40248	10µF 20% 63V
2032	4822 122 33496	100nF 10% 63V
2033	4822 124 40248	10µF 20% 63V
2034	4822 122 33496	100nF 10% 63V
2035▲	4822 124 40196	220µF 20% 16V
2036	4822 124 41643	100µF 20% 16V
2037	4822 122 33496	100nF 10% 63V
2038	4822 122 33496	100nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 33496	100nF 10% 63V
2042	4822 122 33496	100nF 10% 63V
2046	4822 122 31765	100pF 2% 63V
2047	4822 122 31972	39pF 2% 63V
2048	4822 122 32142	270pF 2% 63V
2049	4822 122 31769	18pF 2% 63V
2050	4822 122 31971	10pF 2% 63V
2051	4822 122 31767	150pF 2% 63V
2052	4822 122 32083	8,2pF 5% 50V
2053	4822 122 31772	47pF 2% 63V
2055	4822 122 32083	8,2pF 5% 50V
2056	4822 122 31767	150pF 2% 63V
2057	4822 122 31772	47pF 2% 63V
2058	4822 122 33496	100nF 10% 63V
2060	4822 122 33496	100nF 10% 63V
2061	4822 122 33496	100nF 10% 63V
2062	4822 122 33496	100nF 10% 63V
2063	4822 122 33496	100nF 10% 63V
2064	4822 122 31825	27pF 2% 63V
2065	4822 122 31971	10pF 2% 63V
2066	4822 122 33496	100nF 10% 63V
2070	4822 122 31765	100pF 2% 63V
2071	4822 122 31765	100pF 2% 63V
2072	4822 122 31765	100pF 2% 63V
2073	5322 122 33446	3,3nF 10% 63V
2074	4822 122 31765	100pF 2% 63V
2075	4822 122 31765	100pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 31765	100pF 2% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31765	100pF 2% 63V
2090	4822 122 33496	100nF 10% 63V
2091	4822 122 33498	2,7nF 10% 63V
2092	4822 122 33496	100nF 10% 63V
2094	4822 122 31765	100pF 2% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31644	2,2nF 10% 63V
2100▲	4822 124 40196	220µF 20% 16V
2101	4822 122 33496	100nF 10% 63V
2105	4822 122 33496	100nF 10% 63V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31647	1nF 10% 63V
2112	4822 122 31839	82pF 2% 63V
2113	4822 122 33496	100nF 10% 63V
2114	4822 122 33496	100nF 10% 63V
2118	4822 121 42937	2,7nF 1% 250V
2122	4822 122 31765	100pF 2% 63V
2123	4822 122 31772	47pF 2% 63V
2125	4822 122 31746	1nF 2% 63V
2126	4822 122 31746	1nF 2% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31765	100pF 2% 63V
2140	4822 122 31772	47pF 2% 63V
2141	4822 124 40248	10µF 20% 63V
2142	4822 122 32139	12pF 2% 63V
2145	4822 124 41576	2,2µF 20% 50V
2146	4822 122 32142	270pF 2% 63V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100µF 20% 16V
2152	4822 122 31825	27pF 2% 63V
2155	4822 122 32504	15pF 2% 63V
2156	5322 122 31647	1nF 10% 63V
2157	4822 122 31727	470pF 2% 63V
2158	4822 122 31797	22nF 10% 63V
2159	4822 122 32142	270pF 2% 63V
2160	4822 122 31765	100pF 2% 63V
2161	4822 122 32891	68nF 10% 63V
2162	4822 122 32504	15pF 2% 63V
2163▲	4822 122 32442	10nF 50V
2164▲	4822 122 32442	10nF 50V
2165	4822 122 33496	100nF 10% 63V
2166	4822 122 33496	100nF 10% 63V
2167	5322 122 31842	330pF 2% 63V
2168▲	4822 122 32442	10nF 50V
2169	4822 122 33496	100nF 10% 63V
2170	4822 122 33496	100nF 10% 63V
2175	4822 124 41576	2,2µF 20% 50V
2176	4822 122 33496	100nF 10% 63V
2177	4822 124 41997	470µF 10V
2178	4822 122 33496	100nF 10% 63V
2179	5322 122 31647	1nF 10% 63V
2180	4822 122 31825	27pF 2% 63V
2181	4822 122 31825	27pF 2% 63V
2182	4822 122 31825	27pF 2% 63V
2183	4822 122 31772	47pF 2% 63V
2200	4822 122 31772	47pF 2% 63V
2201	4822 122 31765	100pF 2% 63V
2202	4822 122 31772	47pF 2% 63V
2210	4822 124 40248	10µF 20% 63V
2211	4822 122 33496	100nF 10% 63V

⊣▭⊢

3001	4822 051 10151	150Ω 2% 0,25W
3002	4822 051 10101	100Ω 2% 0,25W
3003	4822 051 10109	10Ω 2% 0,25W
3004	4822 051 51201	120Ω 1% 0,125W
3005	4822 051 51201	120Ω 1% 0,125W
3009	4822 051 10181	180Ω 2% 0,25W
3010	4822 051 10681	680Ω 2% 0,25W
3011	4822 051 10821	820Ω 2% 0,25W
3012▲	4822 052 10279	27Ω 5% 0,33W
3013	4822 116 52231	820Ω 5% 0,5W
3014	4822 051 52401	240Ω 1% 0,125W
3015	4822 051 56201	620Ω 1% 0,125W
3016	4822 051 10471	470Ω 2% 0,25W
3017	4822 051 51501	150Ω 1% 0,125W
3018	4822 051 59101	910Ω 1% 0,125W
3019	4822 051 10471	470Ω 2% 0,25W
3023	4822 051 10271	270Ω 2% 0,25W
3024	4822 051 10102	1k 2% 0,25W
3025	4822 051 10162	1k6 2% 0,25W
3026▲	4822 051 10242	2k4 2% 0,25W
3028	4822 051 10209	20Ω 2% 0,25W
3045	4822 051 10479	47Ω 2% 0,25W
3046	4822 051 10221	220Ω 2% 0,25W
3047	4822 051 10339	33Ω 2% 0,25W
3048	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10339	33Ω 2% 0,25W
3050	4822 051 10102	1k 2% 0,25W
3051	4822 051 10339	33Ω 2% 0,25W
3052	4822 051 52201	220Ω 1% 0,125W
3055	4822 051 10759	75Ω 2% 0,25W
3056	4822 051 53301	330Ω 1% 0,125W
3057	4822 051 53601	360Ω 1% 0,125W
3060	4822 051 10512	5k1 2% 0,25W
3062▲	4822 052 10279	27Ω 5% 0,33W
3070	4822 051 10101	100Ω 2% 0,25W
3071	4822 051 10182	1k8 2% 0,25W
3072	4822 051 10182	1k8 2% 0,25W
3075	4822 051 10102	1k 2% 0,25W
3076▲	4822 051 10472	4k7 2% 0,25W
3077▲	4822 051 10472	4k7 2% 0,25W
3078	4822 051 10101	100Ω 2% 0,25W
3080	4822 051 10221	220Ω 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 116 52195	47Ω 5% 0,5W
3084	4822 051 10272	2k7 2% 0,25W
3085	4822 051 10101	100Ω 2% 0,25W
3086	4822 051 10101	100Ω 2% 0,25W
3087	4822 051 10229	22Ω 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3090▲	4822 051 10103	10k 2% 0,25W
3091	4822 051 10109	10Ω 2% 0,25W
3092	4822 051 10622	6k2 2% 0,25W
3093	4822 051 10511	510Ω 2% 0,25W
3094▲	4822 051 10472	4k7 2% 0,25W
3095	4822 051 10562	5k6 2% 0,25W
3096	4822 051 20222	2k2 5% 0,1W
3097	4822 051 10102	1k 2% 0,25W
3098	4822 051 10102	1k 2% 0,25W
3099	4822 117 10823	2k7 1% 0,125W
3100▲	4822 052 10229	22Ω 5% 0,33W
3101▲	4822 051 10103	10k 2% 0,25W
3102▲	4822 051 10103	10k 2% 0,25W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 10104	100k 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10683	68k 2% 0,25W
3107	4822 051 10272	2k7 2% 0,25W
3110	4822 051 10162	1k6 2% 0,25W
3111	4822 051 10272	2k7 2% 0,25W
3112	4822 051 20222	2k2 5% 0,1W
3114	4822 051 10122	1k2 2% 0,25W
3115	4822 051 10105	1M 5% 0,25W
3116	4822 051 10562	5k6 2% 0,25W
3117	4822 051 10229	22Ω 2% 0,25W
3118	4822 051 10303	30k 2% 0,25W
3119	4822 100 20166	10k 30% lin
3120▲	4822 051 10103	10k 2% 0,25W
3121	4822 051 10332	3k3 2% 0,25W
3122	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10101	100Ω 2% 0,25W
3124	4822 051 10272	2k7 2% 0,25W
3125	4822 051 20222	2k2 5% 0,1W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10123	12k 2% 0,25W
3128	4822 051 10153	15k 2% 0,25W
3130	4822 051 56203	62k 1% 0,125W
3131	4822 100 11213	22k 30% lin
3132	4822 051 10102	1k 2% 0,25W
3134	4822 051 10152	1k5 2% 0,25W
3136	4822 051 10153	15k 2% 0,25W
3137▲	4822 051 10103	10k 2% 0,25W
3137	4822 051 10272	2k7 2% 0,25W
3139▲	4822 051 10103	10k 2% 0,25W
3141	4822 051 10473	47k 2% 0,25W
3142	4822 051 10102	1k 2% 0,25W
3143	4822 051 10683	68k 2% 0,25W
3144	4822 051 20222	2k2 5% 0,1W
3145	4822 051 10221	220Ω 2% 0,25W
3146	4822 051 10681	680Ω 2% 0,25W
3147	4822 051 10221	220Ω 2% 0,25W
3148▲	4822 051 10103	10k 2% 0,25W
3149	4822 051 10272	2k7 2% 0,25W
3150▲	4822 116 81193	15Ω 5% 0,3W
3151	4822 051 10101	100Ω 2% 0,25W
3152	4822 051 10181	180Ω 2% 0,25W
3154▲	4822 116 52256	2k2 5% 0,5W
3155	4822 051 20222	2k2 5% 0,1W
3156	4822 051 10473	47k 2% 0,25W
3157	4822 051 10473	47k 2% 0,25W
3158	4822 051 10101	100Ω 2% 0,25W
3159	4822 051 10569	56Ω 2% 0,25W
3160	4822 116 52291	56k 5% 0,5W
3161	4822 051 10101	100Ω 2% 0,25W
3165▲	4822 052 10279	27Ω 5% 0,33W
3168	4822 051 10513	51k 2% 0,25W
3178	4822 051 10132	1k3 2% 0,25W
3180	4822 051 10561	560Ω 2% 0,25W
3181	4822 051 10561	560Ω 2% 0,25W
3182	4822 051 10561	560Ω 2% 0,25W
3183	4822 051 10759	75Ω 2% 0,25W
3201	4822 051 10101	100Ω 2% 0,25W
3220	4822 116 52244	15k 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W

∿∿

5001	4822 157 53001	27µH 10%
5002	4822 157 53001	27µH 10%
5004	4822 157 53066	15µH 10%
5007	4822 157 53066	15µH 10%
5011	4822 152 20677	10µH 10%
5012	4822 152 20677	10µH 10%
5025	4822 157 60147	2,2µH
5026	4822 157 60147	2,2µH
5034	4822 157 60147	2,2µH
5035	4822 157 60147	2,2µH
5036	4822 157 60147	2,2µH
5040	4822 157 60147	2,2µH
5041	4822 157 60147	2,2µH
5042	4822 157 60147	2,2µH
5047	4822 157 62552	2,2µH
5049	4822 157 60122	1,5µH 20%
5052	4822 157 60122	1,5µH 20%
5054	4822 157 60122	1,5µH 20%
5063	4822 157 60147	2,2µH
5066	4822 157 60147	2,2µH
5079	4822 152 20677	10µH 10%
5083	4822 157 60147	2,2µH
5146	4822 157 53001	27µH 10%
5152	4822 157 52224	15µH 10%
5169	4822 157 60147	2,2µH
5170	4822 157 60147	2,2µH
5177	4822 157 60147	2,2µH

→|—

6001	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6006	4822 130 82334	BAS85
6023	4822 130 82334	BAS85
6025	4822 130 80446	LL4148
6026	4822 130 83459	BZV55-A5V1
6080	4822 130 80882	BZV55-C3V9
6122	4822 130 80884	LLZ-C5V1
6127	4822 130 80446	LL4148

⊗ ▭

7010	4822 130 42131	BF550
7011	4822 130 42513	BC858C
7016▲	5322 130 41982	BC848B
7019▲	5322 130 41982	BC848B
7020	4822 130 42513	BC858C
7021▲	5322 130 41982	BC848B
7022	5322 130 42136	BC848C
7023	4822 130 40938	BC548
7025	5322 130 42136	BC848C
7030	5322 130 44743	BSR12
7032▲	5322 130 41982	BC848B
7034▲	5322 130 41982	BC848B
7035	5322 130 41983	BC858B
7036	5322 130 41983	BC858B
7037▲	5322 130 41982	BC848B
7077▲	5322 130 41982	BC848B
7080▲	5322 130 41982	BC848B
7122▲	5322 130 41982	BC848B
7125	5322 130 44743	BSR12
7127	5322 130 41983	BC858B
7142	5322 130 41983	BC858B
7143▲	5322 130 41982	BC848B
7148▲	5322 130 41982	BC848B
7200	4822 209 30402	TDA2579B/N2/S1
7201	4822 209 33044	PC74HC4538T/S245
7202	4822 209 33044	PC74HC4538T/S245
7203▲	4822 209 83163	LM833N
7231	4822 209 31056	SDA9205-2
7240	4822 209 52418	TMS4C1070B-30N
7241	4822 209 52418	TMS4C1070B-30N
7242	4822 209 52418	TMS4C1070B-30N

7245	4822 209 32581	SAA4970T/V1
7250	4822 209 63645	SAA5231/V7
7260	4822 209 72042	MC78L05ACP
7262	5322 209 31799	PC74HC4538T
7265	4822 209 72042	MC78L05ACP
7266	4822 209 63644	SDA9086-3
7269	5322 209 61004	N74F74D
7271	4822 209 52359	HYB514256B-70
7275	4822 209 31851	SAA9042P/A/MOB
7283	4822 209 52422	Eprom + software

PIP panel [J]

4822 265 31085	5P female
4822 265 41328	10P female
4822 265 20509	2P male grey
4822 265 20511	2P male blue
4822 265 30828	5P nale brown
4822 267 41145	5P male
4822 265 30899	5P male black

Various

1023	4822 212 30839	PIP multi 33"
1023	4822 212 30841	PIP multi 25-28"
1023	4822 212 31315	PIP multi FL2.24-32" -/58
1023	4822 212 31316	PIP multi FL2.24-32"
1023	4822 212 31317	PIP multi FL2.24-28"
1155	4822 320 40284	Delay line DL711G
1201	4822 242 70304	Crystal 8,867 238 MHz
1212	4822 242 70736	Crystal 7,159 090 MHz
1600	4822 210 10392	UV916E
1600	4822 210 50124	UV916E/IEC
1610	4822 242 80295	Crystal OFWG3962M

-||-

2103	4822 126 10324	33pF 2% 63V
2105	4822 122 31766	120pF 2% 63V
2118	4822 122 31775	680pF 2% 63V
2119	4822 122 31767	150pF 2% 63V
2120	4822 122 31807	1200pF 2% 63V
2125	4822 126 11544	22nF 63V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 121 42408	220nF 5% 63V
2161	4822 121 41854	150nF 5% 63V
2162	4822 122 31947	100nF 20% 63V
2171	4822 122 31961	68pF 2% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 2% 63V
2180	4822 122 31768	180pF 2% 63V
2181	4822 122 31768	180pF 2% 63V
2185	4822 126 11544	22nF 63V
2187	4822 126 11544	22nF 63V
2189	4822 122 31746	1nF 2% 63V
2196	4822 122 32183	56nF 10% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1nF 2% 63V
2202	4822 125 50045	1p8-22p trim.
2211	4822 122 31746	1nF 2% 63V
2212	4822 125 50045	1p8-22p trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 2% 63V
2230	4822 124 40753	6,8µF 20% 63V
2232	5322 124 41431	22µF 20% 35V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 40753	6,8µF 20% 63V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 31947	100nF 20% 63V
2250	4822 121 41738	270nF 5% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V
2340▲	4822 124 40433	47µF 20% 25V
2345▲	4822 124 40433	47µF 20% 25V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF 20% 50V
2381	4822 122 32927	220nF 20% 50V
2382	4822 122 32927	220nF 20% 50V
2383	4822 122 32927	220nF 20% 50V
2384	4822 122 32927	220nF 20% 50V
2385	4822 122 32927	220nF 20% 50V
2390	4822 122 31947	100nF 20% 63V
2399	4822 122 31746	1nF 2% 63V
2399	4822 122 31961	68pF 2% 63V
2404	4822 122 31965	220pF 2% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 2% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31769	18pF 2% 63V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 2% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 2% 63V
2441	4822 122 31727	470pF 2% 63V
2442	4822 124 40242	1µF 20% 63V
2447	5322 121 42386	100nF 5% 63V
2448	4822 122 31947	100nF 20% 63V
2449	4822 122 31947	100nF 20% 63V
2450	4822 122 32856	8,2nF 10% 63V
2451	4822 122 31981	33nF 5% 50V
2452	4822 122 31765	100pF 2% 63V
2453	4822 122 31765	100pF 2% 63V
2455	4822 122 31972	39pF 2% 63V
2456	4822 122 31765	100pF 2% 63V
2459	4822 124 41997	470µF 10V
2466	4822 122 31947	100nF 20% 63V
2470▲	4822 124 40196	220µF 20% 16V
2604	4822 124 40195	150µF 20% 16V
2614▲	4822 124 40433	47µF 20% 25V
2615	4822 124 41576	2,2µF 20% 50V
2616	4822 122 32927	220nF 20% 50V
2618▲	4822 122 32442	10nF 50V
2619	4822 124 40849	330µF 20% 16V
2620▲	4822 122 32442	10nF 50V
2621	4822 122 31797	22nF 10% 63V
2622	4822 122 31947	100nF 20% 63V
2623	4822 122 31797	22nF 10% 63V
2627	4822 122 32927	220nF 20% 50V

-▭-

3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107▲	4822 051 10103	10k 2% 0,25W
3108▲	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% lin
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 051 10103	10k 2% 0,25W
3211▲	4822 051 10103	10k 2% 0,25W
3212▲	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228▲	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10112	1k1 2% 0,25W
3233	4822 051 10152	1k5 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% lin
3241	4822 051 10302	3k 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270▲	4822 051 10103	10k 2% 0,25W
3275▲	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330▲	4822 051 10103	10k 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336▲	4822 051 10472	4k7 2% 0,25W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341▲	4822 111 41424	22Ω 5% 0,3W
3345▲	4822 111 41424	22Ω 5% 0,3W
3353▲	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3414	4822 051 10101	100Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464▲	4822 051 10472	4k7 2% 0,25W
3467▲	4822 116 52256	2k2 5% 0,5W
3471▲	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3600▲	4822 051 10103	10k 2% 0,25W
3601▲	4822 051 10103	10k 2% 0,25W
3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
3604▲	4822 052 10158	1Ω5 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30% lin
3611	4822 051 10332	3k3 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
3613▲	4822 051 10103	10k 2% 0,25W
3614	4822 051 10123	12k 2% 0,25W
3615	4822 051 10822	8k2 2% 0,25W
3616	4822 116 52229	750Ω 5% 0,5W
3617	4822 051 10751	750Ω 2% 0,25W
3618▲	4822 052 10568	5Ω6 5% 0,33W
3619	4822 051 10471	470Ω 2% 0,25W
3620	4822 051 20222	2k2 5% 0,1W
3621	4822 051 10105	1M 5% 0,25W
3622	4822 051 10272	2k7 2% 0,25W
3624	4822 051 10272	2k7 2% 0,25W
3625	4822 051 10511	510Ω 2% 0,25W
3630	4822 051 10101	100Ω 2% 0,25W
3631	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
3635	4822 051 10562	5k6 2% 0,25W
3636	4822 051 10911	910Ω 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W
3638	4822 051 10362	3k6 2% 0,25W
3997	4822 051 10101	100Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10479	47Ω 2% 0,25W
3997	4822 051 10829	82Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

-∿-

5118	4822 157 60435	10,3µH 4,86MHz trim
5155	4822 157 60433	7,2µH 4,4MHz trim
5157	4822 157 60434	9,4µH 4,4MHz trim
5170	4822 157 60432	10,3µH 4,4MHz trim
5175	4822 157 60432	10,3µH 4,4MHz trim
5190	4822 157 60432	10,3µH 4,4MHz trim
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5403	4822 157 52333	100µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

-▶|-

6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148

⊗ ▭

7103▲	5322 130 41982	BC848B
7105▲	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7200▲	5322 130 41982	BC848B
7210▲	5322 130 41982	BC848B
7233▲	5322 130 41982	BC848B
7234▲	5322 130 41982	BC848B
7235▲	5322 130 41982	BC848B
7330	4822 209 73852	PMBT2369
7335▲	5322 130 41982	BC848B
7337▲	5322 130 41982	BC848B
7338▲	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 62474	SDA9088-2WS
7410	4822 209 63644	SDA9086-3
7466	4822 209 73852	PMBT2369
7610	4822 209 32692	TDA8349A/N4
7630	4822 209 30395	SAA1300AQ/N6
7755	4822 209 63423	TDA2579B/N2

NICAM sound module [K]

4822 265 41087	Strip 9P

Various

1600	4822 212 23907	ECO-NICAM PAL BG
1600	4822 212 23908	ECO-NICAM PAL I
1001	4822 242 81527	Crystal 17,472MHz
1002	4822 242 72301	Filter TH316BOM-20800 DAF
1002	4822 242 72303	Filter TH316BQM
1003	4822 242 81187	Crystal 11,700MHz
1003	4822 242 81188	Crystal 13,104MHz
1106	4822 242 72303	Filter TH316BQM

-||-

2000	4822 122 31947	100nF 20% 63V
2001▲	4822 124 40433	47µF 20% 25V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31797	22nF 10% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31768	180pF 2% 63V
2006	5322 122 31842	330pF 2% 63V
2007	4822 122 32597	6,8nF 10% 63V
2008	4822 122 31767	150pF 2% 63V
2009▲	4822 122 32442	10nF 50V
2010	4822 122 31767	150pF 2% 63V
2011	4822 122 31766	120pF 2% 63V
2012	4822 121 41854	150nF 5% 63V
2013	4822 122 31746	1nF 2% 63V
2014▲	4822 122 32442	10nF 50V
2015	4822 125 50045	1p8-22p trim.
2016	4822 122 31961	68pF 2% 63V
2017	4822 121 42408	220nF 5% 63V
2018▲	4822 122 32442	10nF 50V
2019	4822 122 31797	22nF 10% 63V
2020▲	4822 124 40433	47µF 20% 25V
2021	4822 122 31782	15nF 10% 50V
2021	4822 122 32856	8,2nF 10% 63V
2022	4822 122 31981	33nF 5% 50V
2022	4822 122 31759	18nF
2023	4822 122 31981	33nF 5% 50V
2023	4822 122 31759	18nF
2024	4822 122 31782	15nF 10% 50V
2024	4822 122 32856	8,2nF 10% 63V
2025	4822 122 31797	22nF 10% 63V
2026▲	4822 124 40433	47µF 20% 25V
2027	4822 122 31773	560pF 2% 63V
2028	4822 126 10171	2700pF 2% 63V
2029	4822 122 32999	2,2nF 5% 50V
2030	4822 122 32999	2,2nF 5% 50V
2031	4822 126 10171	2700pF 2% 63V
2032	4822 122 31773	560pF 2% 63V
2033	4822 126 11492	220nF 10% 63V
2034	4822 126 11492	220nF 10% 63V
2035	4822 122 31746	1nF 2% 63V
2036▲	4822 122 32442	10nF 50V
2037▲	4822 122 32442	10nF 50V
2038	4822 122 31797	22nF 10% 63V

Spare parts list / Stükliste / Liste des pièces

2039	4822 126 11691	150nF 10% 63V
2041	5322 122 31647	1nF 10% 63V
2042	4822 126 10183	330pF 10% 63V
2043	5322 122 31647	1nF 10% 63V
2044	5322 122 31647	1nF 10% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051	5322 122 31647	1nF 10% 63V
2245	5322 122 31647	1nF 10% 63V
2246	5322 122 31647	1nF 10% 63V

-▭-

3000	4822 051 10471	470Ω 2% 0,25W
3002	4822 051 10332	3k3 2% 0,25W
3003	4822 051 10332	3k3 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10823	82k 2% 0,25W
3007	4822 051 10223	22k 2% 0,25W
3008	4822 051 10223	22k 2% 0,25W
3009	4822 051 10392	3k9 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10104	100k 2% 0,25W
3012	4822 053 20106	10M 5% 0,25W
3013	4822 051 10824	820k 2% 0,25W
3014▲	4822 051 10103	10k 2% 0,25W
3015	4822 051 10682	6k8 2% 0,25W
3015	4822 051 10123	12k 2% 0,25W
3016	4822 051 10122	1k2 2% 0,25W
3016	4822 051 20222	2k2 5% 0,1W
3017	4822 051 10122	1k2 2% 0,25W
3017	4822 051 20222	2k2 5% 0,1W
3018	4822 051 10682	6k8 2% 0,25W
3018	4822 051 10123	12k 2% 0,25W
3019	4822 051 10752	7k5 2% 0,25W
3019	4822 051 10562	5k6 2% 0,25W
3020▲	4822 051 10472	4k7 2% 0,25W
3021▲	4822 051 10472	4k7 2% 0,25W
3022▲	4822 051 10472	4k7 2% 0,25W
3023▲	4822 051 10472	4k7 2% 0,25W
3024	4822 051 10184	180k 2% 0,25W
3025	4822 051 10184	180k 2% 0,25W
3026	4822 051 10101	100Ω 2% 0,25W
3027	4822 051 10101	100Ω 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029▲	4822 052 10109	10Ω 5% 0,33W
3030	4822 051 10102	1k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10569	56Ω 2% 0,25W
3033	4822 051 20222	2k2 5% 0,1W
3034	4822 051 10431	430Ω 2% 0,25W
3035	4822 051 10241	240Ω 2% 0,25W
3036	4822 051 10102	1k 2% 0,25W
3037	4822 051 10159	15Ω 2% 0,25W
3049	4822 051 10223	22k 2% 0,25W
3050	4822 051 10123	12k 2% 0,25W
3099	4822 051 10101	100Ω 2% 0,25W
3099	4822 051 51201	120Ω 1% 0,125W
4xxx	4822 051 10008	0Ω 5% 0,25W

-∿-

5000	4822 157 50975	1mH 10%
5001	4822 157 50975	1mH 10%
5002	4822 157 70458	4,7µH 10%
5003	4822 157 70458	4,7µH 10%

-▶|-

6000▲	4822 130 30621	1N4148
6005	4822 209 30911	OF4076
6006	5322 130 31684	BB809
6050	4822 130 80446	LL4148

⊗ ▭

7000	4822 209 30909	TDA8732/C1
7001▲	4822 209 30914	SAA7280/M3
7002▲	4822 209 83163	LM833N
7003▲	4822 209 83163	LM833N
7004	5322 209 10576	4053B
7007	4822 209 73236	TDA1543/N2
7008	5322 130 42755	BC847C
7009	4822 130 60887	BF840
7050	5322 130 42136	BC848C

Combfilter panel [N]

4822 265 41337	Strip 11P

Various

1300	4822 212 30906	Comb filter panel

-||-

2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 124 40248	10µF 20% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 124 40248	10µF 20% 63V
2005	4822 124 40242	1µF 20% 63V
2006	4822 122 33496	100nF 10% 63V
2010▲	4822 122 32442	10nF 50V
2021▲	4822 122 32442	10nF 50V
2022▲	4822 122 32442	10nF 50V
2023	4822 122 31766	120pF 2% 63V
2024▲	4822 122 32442	10nF 50V
2025▲	4822 124 40246	4,7µF 20% 63V
2026	4822 122 33496	100nF 10% 63V
2030	4822 124 40177	47µF 20% 10V
2031	4822 122 33496	100nF 10% 63V
2032	4822 124 40177	47µF 20% 10V
2033	4822 122 33496	100nF 10% 63V
2034	4822 124 40177	47µF 20% 10V
2035	4822 122 33496	100nF 10% 63V
2036▲	4822 124 40433	47µF 20% 25V
2037	4822 122 33496	100nF 10% 63V
2038	5322 122 31647	1nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2044	4822 122 33496	100nF 10% 63V
2045	4822 122 33496	100nF 10% 63V
2050	4822 124 80283	100µF 6,3V
2051	4822 126 11725	1µF 205 5V
2060	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2080	4822 122 31797	22nF 10% 63V
2081	4822 124 80283	100µF 6,3V
2082	4822 122 33496	100nF 10% 63V
2083	4822 122 33496	100nF 10% 63V

-▭-

3000▲	4822 051 10103	10k 2% 0,25W
3001	4822 051 10124	120k 2% 0,25W
3011	4822 051 10471	470Ω 2% 0,25W
3012	4822 051 10102	1k 2% 0,25W
3013	4822 051 10182	1k8 2% 0,25W
3014	4822 051 10151	150Ω 2% 0,25W
3021	4822 051 10122	1k2 2% 0,25W
3022	4822 051 10331	330Ω 2% 0,25W
3023	4822 051 10221	220Ω 2% 0,25W
3024	4822 051 10331	330Ω 2% 0,25W
3025	4822 051 10473	47k 2% 0,25W
3026	4822 051 10479	47Ω 2% 0,25W
3027	4822 051 10471	470Ω 2% 0,25W
3028	4822 051 10479	47Ω 2% 0,25W
3029	4822 051 10102	1k 2% 0,25W
3030	4822 051 10473	47k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10181	180Ω 2% 0,25W
3035▲	4822 052 10108	1Ω 5% 0,33W
3036▲	4822 052 10108	1Ω 5% 0,33W
3037▲	4822 052 10108	1Ω 5% 0,33W
3038▲	4822 052 10108	1Ω 5% 0,33W
3040	4822 051 10333	33k 2% 0,25W
3041	4822 051 10822	8k2 2% 0,25W
3042	4822 051 10331	330Ω 2% 0,25W
3043	4822 051 10102	1k 2% 0,25W
3044	4822 051 10471	470Ω 2% 0,25W
3045	4822 051 10008	0Ω 5% 0,25W
3047	4822 051 10102	1k 2% 0,25W
3048	4822 051 10101	100Ω 2% 0,25W
3050	4822 051 10333	33k 2% 0,25W
3051	4822 051 10822	8k2 2% 0,25W
3052	4822 051 10331	330Ω 2% 0,25W
3053	4822 051 10911	910Ω 2% 0,25W
3054	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10008	0Ω 5% 0,25W
3057	4822 051 10102	1k 2% 0,25W
3058	4822 051 10101	100Ω 2% 0,25W
3060	4822 051 10562	5k6 2% 0,25W
3061	4822 051 10331	330Ω 2% 0,25W
3062	4822 051 10821	820Ω 2% 0,25W
3078	4822 051 10151	150Ω 2% 0,25W
3079	4822 051 10821	820Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 10102	1k 2% 0,25W
3083	4822 051 10473	47k 2% 0,25W
3084	4822 051 10393	39k 2% 0,25W
3085	4822 051 10471	470Ω 2% 0,25W
3086	4822 051 10152	1k5 2% 0,25W
3087	4822 051 10182	1k8 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3089	4822 051 10151	150Ω 2% 0,25W
3090	4822 051 10471	470Ω 2% 0,25W
3091	4822 051 10102	1k 2% 0,25W
3092	4822 051 10223	22k 2% 0,25W
3093	4822 051 20222	2k2 5% 0,1W
3094	4822 051 10333	33k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

-∿-

5021▲	4822 157 51462	10µH 10%
5022	4822 157 63065	0,68µH 20%
5030	4822 157 51312	68µH 10%
5031	4822 157 51312	68µH 10%
5032	4822 157 51312	68µH 10%
5033	4822 157 51312	68µH 10%
5080	4822 154 10057	7,2MHz LOW-PASS

-▶|-

6050▲	4822 130 30621	1N4148
6051	4822 130 31253	BZX79-C2V4

⊗ ▭

7000	4822 212 30906	MC141625A
7005	5322 209 10576	4053B
7010	5322 130 42136	BC848C
7021▲	5322 130 41982	BC848B
7022▲	5322 130 41982	BC848B
7023	5322 130 41983	BC858B
7024	5322 130 41983	BC858B
7040	5322 130 42136	BC848C
7041	4822 130 42513	BC858C
7042	5322 130 42136	BC848C
7050	5322 130 42136	BC848C
7051	4822 130 42513	BC858C
7052	5322 130 42136	BC848C
7062	5322 130 42136	BC848C
7080	5322 130 42136	BC848C
7081▲	5322 130 41982	BC848B
7082	5322 130 41983	BC858B
7083	4822 130 42513	BC858C
7090	5322 130 41983	BC858B
7091▲	5322 130 41982	BC848B
7092▲	5322 130 41982	BC848B

Black-stretch panel [D']

4822 265 41376	Strip 13P

Various

1200	4822 212 31276	Black-stretch panel

-||-

2514	4822 124 40195	150µF 20% 16V
2515	4822 124 40272	33µF 20% 16V
2516	4822 124 40849	330µF 20% 16V
2517	4822 124 40242	1µF 20% 63V
2518	4822 126 11544	22nF 63V
2519	4822 121 42408	220nF 5% 63V
2521	4822 124 40248	10µF 20% 63V
2524	4822 126 11544	22nF 63V

-▭-

3511	4822 051 10102	1k 2% 0,25W
3512▲	4822 052 10688	6Ω8 5% 0,33W
3513	4822 051 10511	510Ω 2% 0,25W
3514	4822 051 10152	1k5 2% 0,25W
3515	4822 051 10202	2k 2% 0,25W
3516	4822 051 10102	1k 2% 0,25W
3517	4822 051 10102	1k 2% 0,25W
3518	4822 051 10202	2k 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10394	390k 2% 0,25W
3524	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10122	1k2 2% 0,25W
3532	4822 051 10911	910Ω 2% 0,25W
3533	4822 051 10681	680Ω 2% 0,25W
3550	4822 051 10101	100Ω 2% 0,25W
3552	4822 051 10008	0Ω 5% 0,25W

-▶|-

6500	4822 130 81513	LLZ-C6V8
6501	4822 130 81223	LLZ-C2V4

⊗ ▭

7518	4822 209 30711	CX20125
7519▲	4822 130 41344	BC337-40
7520▲	5322 130 41982	BC848B
7521	5322 130 41983	BC858B
7522▲	5322 130 41982	BC848B
7524	4822 209 63901	TDA4568/V2

Y/C detector [I]

4822 265 40503	5P female gold plated
4822 265 30431	3P female gold plated

Various

1021	4822 212 23929	Y/C detector panel
1231	4822 242 80364	Filter 4,43 MHz

-||-

2225▲	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF 20% 50V
2228	4822 122 32927	220nF 20% 50V
2235	4822 122 31965	220pF 2% 63V
2236	4822 122 31772	47pF 2% 63V
2237	4822 122 32142	270pF 2% 63V
2238	4822 122 31768	180pF 2% 63V
2239	4822 122 31947	100nF 20% 63V
2244	4822 124 20722	1µF 10% 63V
2246	4822 122 31947	100nF 20% 63V
2247	4822 122 31766	120pF 2% 63V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31767	150pF 2% 63V
2269	4822 124 20726	4,7µF 10% 63V

-▭-

3200	4822 050 11002	1k 1% 0,4W
3201	4822 116 83006	2M7 5% 0,5W
3203	4822 051 10563	56k 2% 0,25W
3204▲	4822 051 10103	10k 2% 0,25W
3212	4822 051 10751	750Ω 2% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3214	4822 051 10153	15k 2% 0,25W
3221▲	4822 051 10472	4k7 2% 0,25W
3223	4822 116 52203	91Ω 5% 0,5W
3225▲	4822 116 52219	330Ω 5% 0,5W
3226	4822 116 52243	1k5 5% 0,5W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 051 10102	1k 2% 0,25W
3231	4822 051 10681	680Ω 2% 0,25W
3236	4822 051 10331	330Ω 2% 0,25W
3250	4822 051 10151	150Ω 2% 0,25W
3258	4822 051 10102	1k 2% 0,25W
3272	4822 051 10471	470Ω 2% 0,25W
3278▲	4822 051 10472	4k7 2% 0,25W
3280	4822 051 10102	1k 2% 0,25W
3282▲	4822 051 10103	10k 2% 0,25W
3283▲	4822 051 10472	4k7 2% 0,25W
3284	4822 051 10102	1k 2% 0,25W
3289	4822 051 10102	1k 2% 0,25W
3302	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10471	470Ω 2% 0,25W
3309	4822 051 10008	0Ω 5% 0,25W
3319	4822 051 10102	1k 2% 0,25W
3991	4822 051 10399	39Ω 2% 0,25W

-∿-

5200	4822 157 62824	7,5µH
5201	4822 157 62824	7,5µH
5202	4822 157 60122	4,7µH 10%

-▶|-

6258	4822 130 80905	LLZ-F5V1

⊗ ▭

7226	5322 130 41983	BC858B
7228▲	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263▲	5322 130 41982	BC848B
7264	4822 130 42353	BFS19
7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277▲	5322 130 41982	BC848B
7278▲	5322 130 41982	BC848B